

Marauder's Map

University of Winnipeg Interactive Campus Map

Milestone 1

Team: Mischief Managed

Group members:

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- Russell
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Problem Description

Navigating the University of Winnipeg Campus, despite its relatively small size, can be quite a challenge. Different buildings have their own “almost hidden” nooks and corners that consist of classrooms, bookshelves, and even department offices. Furthermore, some departments have a few classes or offices located within the vicinity of a completely unrelated department. Locating these classrooms/offices can be outright impossible without help. For example, the geology lab on the 5th floor is only accessible by going through an unmarked door at the very back of a quiet reading room. Furthermore, different floors within a building don't necessarily follow the same floor plan or numbering system. The official published map of the campus only labels the names of the different buildings without room numbers or other information like amenities (figure 1). The students, staff, and other people navigating the campus are offered little guidance to navigate the maze-like interiors. The most direct routes to different areas on the campus are not clearly shown on the map, and some buildings include split levels. Navigation can be extra challenging for people with mobility issues, because they may need to take long detours, and have little to no signage to indicate accessible entry points. People with vision impairments also have great difficulty navigating the campus due to unclear signage, and lack of non-visual information. For example, no text-to-speech feature is available for the currently provided map. We plan to solve these problems by creating an interactive map of the University of Winnipeg campus with a mobile app. The interface will have a search function, and visual indicators for rooms, paths, etc. In addition, our app will feature an accessibility mode to help people with disabilities navigate the campus in a way that supports their physical limitations.

Proposed Solution

Our intention is to improve the navigation experience for students, staff, and visitors of the University of Winnipeg campus. We will implement a user-centered approach to

empathize, define, idea, prototype, and test the design of the app -- this will ensure that the users' needs, and requirements are being met. The app be created with usability goals and design heuristics in mind to produce a positive user experience. The app will include a very detailed and interactive map of the entire campus. It will show different buildings, floors, classrooms, hallways, and accessibility options. These components and their related information will be part of a searchable database that can be quickly and easily accessed. The user will be provided with written (accessible for screen-reading technology) and visual directions to classrooms/offices - making campus navigation less complicated and more efficient. Users with mobility issues can use the accessibility mode feature to navigate the campus in a way that accommodates their limitations. The ability to share your current location on demand with select other people was another user need that we discovered from our preliminary research. We also discussed the unique user experience of augmented reality to show directions in 3-D space using the smartphone's camera.

Possible users and study participants

The users of this app will be current students, visitors, possible future students, and university faculty and staff. However, our primary focus will be on first year students, visitors, and future students.

Prototyping tools:

- UXpin
- Powerpoint, Photoshop
- Open Street Maps

Stakeholders:

- Students (future, alumni, and current)
- Faculty and staff (future, alumni, and current)
- Visitors (past, current, and future both frequent and infrequent)
- University administration (financial department, president, vice president, student recruitment etc.)
- Anyone planning a meeting on campus

New students will most likely be the most frequent users of the app because they are unfamiliar with the campus. Current students are also likely to use the app when they need to find a new location or meet someone on campus. Student alumni may also use the location feature to meet with others, or to find their way around a newly built section or building on campus. Future students may feel more confident exploring the campus by having all of the information they need in convenient and familiar form

like this app. Past, present, and future faculty and staff could use the app to find new classroom locations or offices. Additionally, they could also use the location sharing feature to help coordinate faculty and student meetings. The augmented reality feature will be particularly useful for infrequent users, such as visitors, that are very unfamiliar with the campus and require visual guidance to their destination. Landmarks on the interactive map will help users discover areas of interest and have updated information about amenities. The administration of the university can benefit from this app in many ways. It can be used as a marketing tool when recruiting new students and staff. The positive user experience and benefits associated with this app make it a great business solution. The app can be a great selling point and increase enrollment and thus revenue for the University of Winnipeg. Future students, visitors, faculty, and staff with different disabilities may be enticed by the University's effort to make the campus as accessible as possible. Our app will consider the different mobility and visual limitations that any person navigating the campus may have when designing the custom features. For example, the app will have a setting that can limit the navigation directions to use elevators only (no stairs or escalators) - a very important feature for people as a mobility aid.

Overall, anyone interacting with the University of Winnipeg campus can be a stakeholder. These people will have a wide range of experience and knowledge regarding technology and the navigation of the University of Winnipeg campus. The app users will have varying demographics, but we would expect that the majority are 18 years and older and have some experience with mobile navigation apps. To ensure that the users' needs and requirements are being met we will create a user-centred design that is flexible, accessible, and inclusive as possible.

Gathering requirements

We will be gathering requirements through following methods:

Interview: With several current and alumni students.

Questionnaire: Target participants that are current students and their friends and families via social media group post. The questionnaire will be publicly available online. We hope to reach future students through this method.

Focus group: With international students.

*(*Team member who conducted the focus group unreachable*)*

Researching documents: Studying the deficiencies of the University Campus map to identify problems.

Interviews:

Kayla's interview with current student:

I conducted an in-person and semi-structured interview with a current student at the university. They have attended the university campus for over 7 years (including high school) and still have issues navigating it. Even as we were setting up the interview and deciding on a location to meet, I could see the need for an enhanced campus map. We decided to meet in the library, but even within that one section it can be difficult to describe a location to someone. This exemplified the need for a location sharing feature in the app -- a requirement that was discovered during this preliminary interview.

Overall, the interview went well. It took about 15 mins and was semi-structured. I had a list of questions but added more as our discussion progressed. I think that having the current campus map printed out as a reference was very important, because it helped the participant describe exactly what they liked and did not like about it. I would not do anything differently for this interview, but if I were to interview different stakeholders I think it would be important to adjust the questions to their unique attributes.

Sambid's Interviews with current and alumni students:

I conducted short, semi-structured interviews with three current undergraduate students who have been studying at the University for about 2 to 4 years, and an alumni student that graduated from the University's PACE program about a year ago. My interview with the alumni student took about 10 minutes. I was given the impression that the student didn't have experience with different buildings of the University. She had memorized the parts of the university buildings that she frequented. The interviews with current students took about 5 minutes each. With all the participants stating that they haven't used the campus map at all and just ask others for directions if they ever need to. In hindsight, I could have structured the interview better and improved the questions after each iteration. Specifically, I did not anticipate that the participants would have no experience with the current pdf campus map at all. I could also have targeted for a broader demographic of students.

Questionnaire:

The questions we decided on for the questionnaire had many revisions as we discussed what kind of data we needed to collect from the stakeholders. It was difficult to make the questionnaire both brief but thorough. Brevity was important so that the participants wouldn't give up while trying to complete it, but we also needed the data collected from it to be insightful to define the user's requirements. To accommodate these features we decided to create 10 multiple choice, likert and semantic scale type questions with optional short answer responses. The participants could explain the reasoning for their answers if they wanted to, but it was not required. We did not include age ranges for the participants to select because we felt that it wasn't

necessarily relevant to our app design. We missed out on some important data by not including a question about the participant's role as a current, past, or future student/staff/visitor. Upon reviewing the data, it was clear that this info would have been helpful for our research and we will incorporate it into future research. One of the most insightful questions we asked was about the participant's familiarity with the campus. The qualitative data that we collected provided us with a better understanding of their mental models.

Other areas of discussion included disabilities and the accessibility mode in our design. We also collected data about smartphone and navigation app use to determine the participants' familiarity with similar types of systems.

Researching similar products:

It was immediately apparent that we needed to research what kind of navigation resources were currently available at the university. We then used the main campus map within our interviews and questionnaire to get feedback directly from the stakeholders. We also researched other kinds of navigation apps - noting their interface features and design.

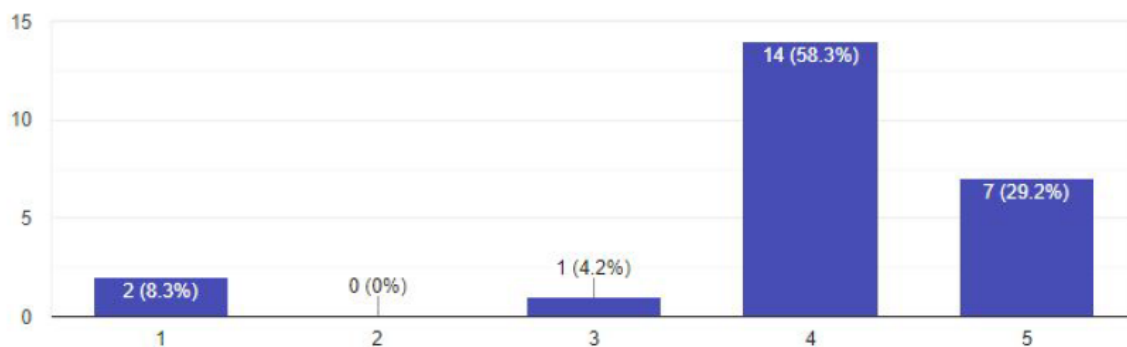
From the questionnaire, we found that most of the stakeholders have problems with the readability and lack of signage on campus. Specifically, issues regarding the navigation of the library became a recurring theme in our data. Our team decided to implement a share location feature to solve this problem.

The overall visual design of the user interface for our application should allow for easier readability -- including consistent symbols to help distinguish entrances, elevators, and other key building and layout features. Highly accurate, real-time location tracking on the map would allow the user to always know exactly where they are.

Data from the questionnaire:

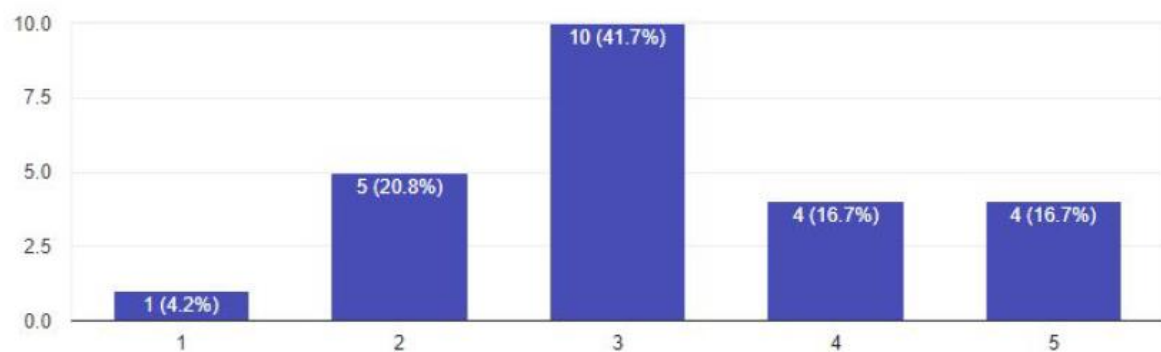
How familiar are you with the entire University of Winnipeg Campus?

24 responses



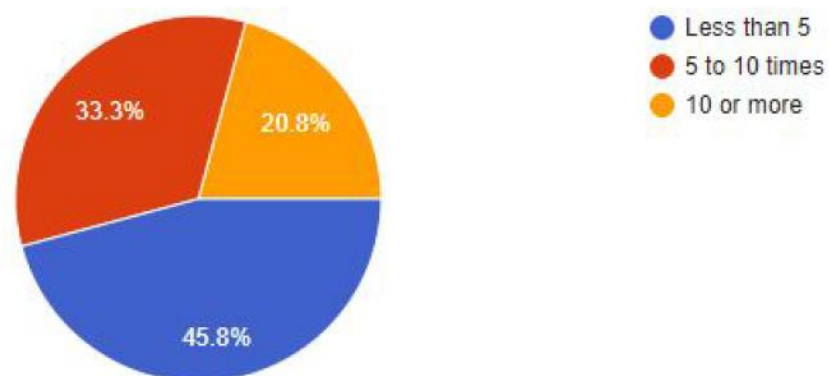
In your opinion is the campus well marked with directional signs to help with navigation?

24 responses



How often have you referred to the Campus Map?

24 responses

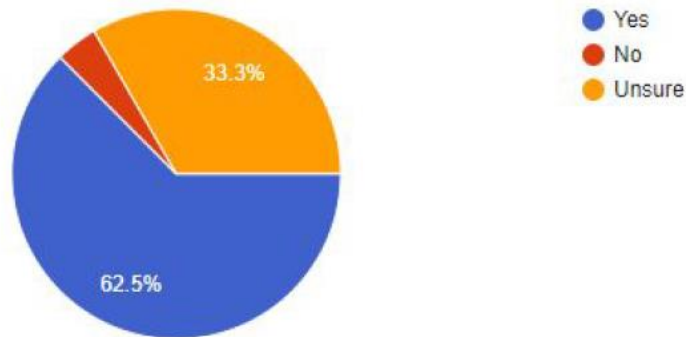


If you needed to navigate to a familiar place on an upper level on campus, but could only use the elevators (no stairs, or escalators). Would you be able to do this?

24 responses

If you needed to navigate to a familiar place on an upper level on campus, but could only use the elevators (no stairs, or escalators). Would you be able to do this?

24 responses



Do you know where the University's legal counsel office is located?

24 responses



From the data above, we can see a recurring theme of a lack of stakeholder knowledge of the university's campus. If we look at it quantitatively, we can see that the data consistently points towards nearly 50% stakeholders answering negatively to each question. This is a significant figure because the percentage of people who answered a 4 or a 5 in familiarity with the campus is 87.5%. If the large majority of the stakeholders taking this survey are unfamiliar with certain aspects of the campus, then it shows that the current campus map needs improving.

Qualitative summary: similar products comparison, and questionnaire:

Problems stakeholders and our group have about the current campus map's readability include:

- Not being able to quickly find out where you currently are on the map
- Unclear where entrances are
- Only clear if you are somewhat familiar with the campus already

Qualitative summary: questionnaire

Problems stakeholders from the questionnaire have about the current campus' signage include:

- Lack of signage
- Not very prominent in hallways (location problem)
- Not very visually pleasing
- Unclear routing from following the signs
-

Quantitative summary: questionnaire

- 40% of stakeholders would have trouble locating a familiar place on an upper level on campus.
- Almost half of the stakeholders are not familiar with some of the buildings outside of campus.
- Nearly 70% of stakeholders do not know where the University's legal counsel office is located
- 20% of stakeholders have had to refer to the campus map 10 or more times trying to find locations, this is a big problem as it shows that the current campus map is not clear enough.

Overall, we can see from the data analysis that a large percentage of participants were familiar with the campus (58.3% answered a 4 out of 5 towards very familiar with the campus in the questionnaire, and 29.2% answering a 5 out of 5) are not able to effectively and efficiently navigate through the campus with the currently available resources.

Qualitative summary: interviews

Problems stakeholders from interviews have about the current campus' signage include:

- Buildings not labeled properly
- Elevators not very well marked
- Not all students are aware of the existence of campus map
- Students don't find the map very helpful or usable

System Requirements:

Functional:

The system should allow the user to search for specific room locations in any building on campus. It should use augmented reality with the user's mobile camera to scan the environment and display a virtual line that the user can follow to their destination. It should allow and revoke location sharing upon request of the user with select people of their choosing. It should display an interactive map that can be explored. The map

should also be colour coded for different buildings, include easily identifiable icons for amenities, and tags for campus landmarks. The map should also have real images of the environment at ground level (like Google maps). Directions from current location to a selected or searched for destination should also appear as an option on the map. An accessibility mode should be made available for people with different disabilities and requirements.

Data:

System settings and preferences should be stored in the app logs, so that when the user reopens the app it will be set up as they left it. The app also needs to maintain a search history log so that users can easily access previously searched for locations (similar to Google maps). There should also be an option to save pre-sets if the user wants to refer back to different settings profiles.

Environment/context of use:

There will be a range of environments our system can potentially be used in including indoor, outdoor, bright, dim, noisy, quiet, busy, and distracting environments. The user may also be walking, talking, or doing other activities while using the system, so feedback, discoverability, and visibility will be important.

Social:

The system should have the ability to let users share their location with others when they want to and revoke that privilege as desired for privacy.

Organization:

The system should have a feature that allows the user to look at support and help documents with available contact information. The use of progressive disclosure should be implemented to help train the user how to use the system.

Technical:

The system will need to be compatible with Android or iOS and have a functional camera for the augmented reality feature. High accuracy GPS should also be in place for accurate location sharing.

People will use our system for:

- Sharing location info with other stakeholders and finding others by receiving shared location info
- Navigating the campus efficiently
- Finding target locations on the campus

- Finding certain transportation methods (elevators, escalators, stairs)
- Locating buildings
- Finding entrances
- Finding certain event locations
- Providing directions to people who do not have a map of the campus.

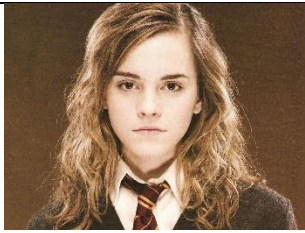
Scenarios:


Scenario 1: Ron is a new student at the University of Winnipeg, and he wants to find the buildings and rooms where his classes will be held. He pulls out his smartphone and uses it to check the location information for his registered classes. He opens a new app, “Marauder’s Map”, that shows a detailed and interactive layout of the campus. He needs to find a room located in the “Lockhart building”, so he types this phrase into the app’s search bar. The system provides visual feedback by centering and highlighting the building on the map. He can also view directions from where he is currently located to his desired destination. He tries to follow the map but becomes confused with the cardinal directions. To make things easier, he opens the augmented reality feature. Holding his phone in front of him, a guiding directional line appears in real-time and space using the phone’s camera. He navigates his way to the room quickly and easily. He can also save the location if he gets lost and needs to find it again.

Scenario 2: Luna is a 3rd year at the university and is familiar with most buildings. She needs to meet with her group to work on a project in the library. Even though she is familiar with space, it covers a very large area that spans 3 floors and has many side rooms and sections. She is running late and doesn’t have time to search the entire library for the group. Instead of having her group try to explain where they are, she requests that they simply share their current location using the “Marauder’s Map” app. ‘Ping’ a notification goes off on her phone saying that she has received an invite to view her group member Lavender’s location. Luna opens the notification and a beacon is displayed on the interactive map that shows exactly where the group is within the library. Using the provided directions from her current location she easily finds the group.

Scenario 3: Tom Riddle graduated from the university about 10 years ago and is familiar with most of the campus. Today, he has an appointment with a professor at the university’s secret office, but it is located in a new building. He asks someone at the student office for help and they show him a new app available on his smartphone called ‘Marauder’s Map’. The interface is consistent with other map apps that he has used, and he easily finds the search bar. Typing in the new building’s name and desired room number, a list of selections appears, and he taps the correct one. A route with detailed instructions appears and he uses them to navigate to a hidden office in the new building.

Primary Personas:

	Name: Hermione Granger
	Age: 20
	Psyche: intelligent, organized, driven
	Quote: “I’ve learned all the course books by heart of course. I just hope it will be enough— I’m Hermione Granger, by the way, who are you?”
Background:	<ul style="list-style-type: none"> -student proficient in all areas of study -familiar with technology and smartphone apps -uses apps to stay organized and prioritize tasks -enjoys spending time in the library, and finding new quiet places to study
Emotions and attitudes:	<ul style="list-style-type: none"> -eager to try to new technology -enjoys productivity apps that help her use her time efficiently -gets frustrated when she can’t solve a problem because there’s a lack of information -believes that research is the best way to find a solution to a problem
Personal traits:	<ul style="list-style-type: none"> -fast learner -enjoys figuring out new technology -likes apps that can be customized to her preferences -doesn’t like to ask for help
Needs:	<ul style="list-style-type: none"> -customizable features that can be saved -an app that supports her productivity and efficiency -a system that helps her plan, stay organized and on schedule -a way to easily find and be found by others for tutoring or group projects
Situations:	<ul style="list-style-type: none"> -sometimes late for classes because the previous class goes overtime -tries to stay on schedule by moving quickly on campus -describes her location with detailed directions so that people can meet with her -uses the university’s pdf map to locate buildings on campus -sometimes asks the security office or librarians for directions
Scenarios:	<p>1. Hermione is running late for class again because there are too many people in the hallways. “There must be a more efficient route,” she thinks to herself. She decides to try the university’s new campus map app, Marauder’s Map, to search for the best route. She discovers that there is a faster way to navigate between her two classes by using a lesser known hallway. Next time she will be there early to get the best seat!</p>

	Name: Harry Potter
	Age: 18
	Psyche: confident, hard working, brave
	Quote: "Working hard is important. But there is something that matters even more, believing in yourself."
Background:	<ul style="list-style-type: none"> -starting second year of university -average student -familiar with technology and smartphone apps -has a good sense of direction and knows how to get to most buildings on campus -uses apps to play games, socialize, and stay informed -enjoys spending time playing soccer and hanging out with friends -broke his leg playing soccer in the first week of the new semester
Emotions and attitudes:	<ul style="list-style-type: none"> -willing to try to technology -especially if it is new or cutting edge -enjoys social apps that help him connect with his friends -doesn't want to spend too much time learning a new app -often uses the default settings for software -motivated by helping others -believes quick action is the best way to find a solution to a problem
Personal traits:	<ul style="list-style-type: none"> -easy going and patient -avoids planning, scheduling, and organizing -enjoys using technology to socialize -likes apps that are easy to learn how to use
Needs:	<ul style="list-style-type: none"> -a simple user interface that can be learned quickly -an app that helps him socialize -a system that helps him stay on schedule -a way for him to navigate the university on crutches with limited mobility
Situations:	<ul style="list-style-type: none"> -uses accessible routes and entry points to buildings now that his mobility is limited -sometimes late for classes because he has difficulty finding the elevators or gets stuck in crowded hallways -describes his location with detailed directions via text so that they can meet him in accessible areas -uses the university's pdf map to locate buildings on campus -sometimes asks others for directions, but will most often refer to the fire exit layout maps throughout the university
Scenarios:	<p>1. Harry needs to meet with Hermione in the library for tutoring, but he can't find the elevator. He texts Hermione to let her know he's on his way but can't find the elevator. She tells him to get the "Marauder's Map" app and use the elevators filter. He knows it's always best to follow Hermione's advice and quickly downloads and starts the app. He sees the filter options right away and selects 'elevators'. This shows him the locations of all the elevators in the</p>

	current building. He successfully finds the somewhat hidden elevator and takes it up to the fourth-floor library where he meets with and thanks Hermione for the great app suggestion.
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Appendix:

Outline for Focus Group/Interview Questions:

- How do you currently navigate the campus?
- What resources, for example landmarks do you use?
- Can you provide examples of said resources?
- How often do you refer to the Campus map?
- On a scale of 1 to 10 with 1 being completely unreadable and 10 being better than google maps how will you rate this map? (Show a big picture of map)
- Do you think the campus is well marked with signs?
- If you needed to use an elevator do you know where they are?
- Are you aware of university buildings outside of the main campus? How would you navigate to them?
- How many of you know where to find the University's legal counsel office?
- If you have to find your friends at the university, how do you do it?

Interview transcripts:

Interview transcript from current student with several years at the university: (Kayla)

How many years of experience do you have navigating the university campus?

7 years from high school

How familiar are you with the buildings in the main campus?

Pretty familiar 5/5

Buildings outside the main campus?

Not as much 1/5

What kinds of resources do you use to navigate the campus?

Ask security, landmarks, campus map in print

What kind of landmarks have you used to find your way around the campus?

Cafeteria, help desks To find friends? Mutual knowledge

Are you familiar with the current campus map? Show pdf

How often have you used it?

About 5 times (not that familiar)

What are some things you like and dislike about this map?

There are limited colours, different buildings should be colour coordinated for better discoverability and readability. The map is too small when printed. The icons/symbols are good - they make sense. Can easily tell what they are. I like the grouping of buildings/lists of items.

Do you currently have or had a disability that required you to modify how you navigate the campus?

No Have you ever had to use the elevators exclusively? *No, but I have a friend in a wheelchair that has, so I know where some are. The elevators are not well marked. I only know where they are in Manitoba Hall.* Do you know where the elevator in Centennial Hall is? *No I didn't know there was one.*

How is the signage overall on Campus? *Very poorly labeled buildings. It's not so good.*
Do you have any other thoughts on finding your way around the University of Winnipeg Campus?

I think your app should include a location sharing feature to find friends or people more easily. It's hard to try to meet with people.

Do you have a smartphone? If yes, have you used navigation apps on it?
Yes. Google maps and Apple maps.

Interview transcript from alumni student: (Sambid)

During your studies at the university were you aware of all the different classrooms and offices? How will you describe the experience of finding your way around the campus?

No, I had to memorize the direction or ask the students on the way for the direction everytime.

Did you have trouble going from one class to the next when you were at the university?

No, our program is structured differently and we only ever had to go to one classroom in AnX.

Are you familiar with the buildings outside the main campus?

Not really, All of my classes were in the rice center and I never really frequented other parts of the university.

So you had never been to richardson science center? or the Mcfeetors hall?

I have heard of the science center but I haven't ever visited it.

During your time at university What kinds of resources did you use to navigate the campus? Did you frequently other students for directions? were there any landmarks you could follow?

When confused I usually just asked a student or a security personnel. And I had memorized my way around the AnX building.

When you needed to meetup with friends what kind of how did you find them? what kind of landmarks did you use

Cafeteria was the common meeting point though, sometimes pointing out which cafeteria was caused a bit of confusion. We usually get every to gather at starbucks.

Are you familiar with the current campus map? (Show pdf)

I have only ever used it couple of times as it is difficult to understand directions. And cumbersome to read,

What are some things you liked and disliked about this map?

It is very difficult to read. and does not markout the hallways.

Have you ever had to use the elevators exclusively to get somewhere at the campus?

Yes.

Could you tell me how to get to the library from the entrance to Centennial Hall via elevators?

Yes, take the one right in front of the entrance.

You mean this entrance to centennial right? The one that leads straight past the security office to the escalator?

Yes.

Do you have a smartphone? If yes, have you used navigation apps on it?

Yeah, I usually use google maps to lookup transit information.

**Interview transcript from current students with 2 to 4 years at university:
(Sambid)**

Interview 1:

How many years of experience do you have navigating the university campus?

- I have been on campus for about 4 years now.

How familiar are you with the buildings in the main campus?

- Not very much, I do get confused with building layout sometimes

Are you familiar with the buildings outside the main campus?

- No. Not really

What kinds of resources do you use to navigate the campus? (Ask security, landmarks, campus map in print)

- Mostly through Trial and Error!

What kind of landmarks have you used to find your way around the campus?
Cafeteria, help desks To find friends? Mutual knowledge

- Usually using signs on the hallways whenever they are there of course.

Do you think we have adequate signage on the halls?

-Honestly, no.

Are you familiar with the current campus map? (Show pdf)

- I didn't know I could get the printed pdf map.

So you have not used this map?

- Never

Do you know where the elevator in Centennial Hall is?

- Yes,

Do you have a smartphone? Have you used navigation apps on it?

- Yes. Its 2019 Everybody uses one

Interview 2:

How many years of experience do you have navigating the university campus?

I started in 2017 so it's been about two years.

How familiar are you with the buildings in the main campus?

I am not very familiar with all the areas of the building. Though I am familiar with all of my classrooms.

At the start of the term how do you usually find your way to the classrooms

I check my classroom through webadvisor and follow the signs on the hallways.

Are you familiar with the buildings outside the main campus?

I am familiar with Buhler Centre and Rice Center but that's all.

What kinds of resources do you use to navigate the campus? (Ask security, landmarks, campus map in print)

I usually just ask my way around with other students.

Are you familiar with the current campus map? Show pdf

No, I am not very familiar with the current campus map.

How often have you used it?

I have just used the map once when I started my university.

Why do you not refer to the map when in need?

The map is very confusing and irritating to read.

Do you know where the elevator in Centennial Hall is?

No.

Do you have a smartphone? If yes, have you used navigation apps on it?

Yes I do have a smartphone and but not any navigation apps in particular.

So you have not used Google or Apple Maps?

Oh yeah I have used Google Maps.

Interview 3:

How many years of experience do you have navigating the university campus?

Close to 3 years now.

How familiar are you with the buildings in the main campus?

I know how to get to most classrooms and main gathering areas like Riddell and the cafeterias

Are you familiar with the buildings outside the main campus?

I'm not sure of all the buildings. But, I've been to Rice Center, International Student Services and the Student Central, the Axworthy building and the school field.

What kinds of resources do you use to navigate the campus? (Ask security, landmarks, campus map in print)

I usually try and find the places using the signboards and floor numbers. If I really can't find, then I'll ask the security or look at the campus map.

What kind of landmarks have you used to find your way around the campus?

Cafeteria, help desks To find friends? Mutual knowledge

Usually riddell hall, 3rd floor cafeteria or library ground floor or sometimes, I'll even ask my friends to meet beside escalators.

Are you familiar with the current campus map? Show pdf

Yes, I have seen it online and on campus before.

How often have you used it?

very rarely. I don't like the map. I find it very confusing.

What are some things you like and dislike about this map?

I feel like there might be too much information in one map. But maybe that's how maps are meant to be.

A more specific map for each building might be good.

Do you currently have or had a disability that required you to modify how you navigate the campus?

No, I don't have a disability.

Have you ever had to use the elevators exclusively?

Nope, I have not.

Do you know where the elevator in Centennial Hall is?

Nope. I can't recall where it is..I might be able to find it when I'm on campus though.

Do you have any other thoughts on finding your way around the University of Winnipeg Campus?

An app to show my current location and how to get to a classroom will definitely help. There's been times I reached school 5 minute before a final exam and ended up being late because I couldn't find the class. Now, let's talk about time management some other time.

Do you have a smartphone? If yes, have you used navigation apps on it?

Yes, google maps mostly.

Questionnaire:

Navigating the University of Winnipeg Campus

An anonymous questionnaire for a student project at the University of Winnipeg.
All written responses are optional.
Please do not disclose any personal information on this form.

*Required

How familiar are you with the entire University of Winnipeg Campus? *

	1	2	3	4	5	
Not familiar at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very familiar

What kind of resources have you used to find your way around the University of Winnipeg campus? Please, select all that apply. *

- ☐ Campus Map
- ☐ Google Maps
- ☐ Apple Maps
- ☐ Signage at the corridors
- ☐ By asking people for directions
- ☐ Evacuation plan maps (in case of fire)
- ☐ Landmarks ex) cafeteria
- ☐ Other: _____

How often have you referred to the Campus Map? *



- ☐ Less than 5
- ☐ 5 to 10 times
- ☐ 10 or more

How would you rate the readability of the campus map shown above? *

- 1 2 3 4 5
- Confusing and unreadable ☐ ☐ ☐ ☐ ☐ Very clear and readable

Please, briefly describe the reasons for this rating.

Your answer

In your opinion is the campus well marked with directional signs to help with navigation? *

	1	2	3	4	5	
Not well marked at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very well marked

How would you improve the signage on campus?

Your answer

Do you currently have or have you had a disability that impacts the way you can navigate the campus (short term or long term)? *

- ☐ Yes
- ☐ No
- ☐ Prefer not to say

If you needed to navigate to a familiar place on an upper level on campus, but could only use the elevators (no stairs, or escalators). Would you be able to do this? *

- ☐ Yes
- ☐ No
- ☐ Unsure

Are you aware of the university buildings outside of the main campus? *

- ☐ Yes
- ☐ No
- ☐ Some

Do you know where the University's legal counsel office is located? *

- ☐ Yes
- ☐ No
- ☐ I have a general idea where it's located

Do you use apps for navigation on your smartphone? *

- ☐ Yes
- ☐ No
- ☐ I don't have a smartphone

Please, share any other thoughts you have about navigating the University of Winnipeg Campus

Your answer

Submit

Page 1 of 1

<https://forms.gle/NuqZmKQajMVH6m3NA>



Kayla Weselowski shared a link.

October 30 at 9:05 PM

Hello, my name is Kayla and I'm a 3rd yr ACS student. Myself and three other students are seeking people who are at least 18 years old and have visited the University of Winnipeg Campus or that intend to at any point in the future. If you match this criteria please complete a short questionnaire as preliminary research for our project in ACS-3916 Human-Computer Interaction.

The questionnaire will take about 5 mins to complete, and has optional written responses. There will be no compensation for participating.

The results of the evaluation will be strictly for research, and all of your comments will be confidential. Please do not include any personal information in your short answer responses. Please click the link below to complete the online questionnaire: <https://forms.gle/omfzM4o35h8YMuKV8>

Navigating the University of Winnipeg Campus

An anonymous questionnaire for a student project at the University of Winnipeg. All written responses are optional. Please do not disclose any personal information on this form.

How familiar are you with the entire University of Winnipeg campus? *

1 2 3 4 5

Not familiar at all Very familiar

What kind of resources have you used to find your way around the University of Winnipeg campus? Please, select all that apply

DOCS.GOOGLE.COM

Navigating the University of Winnipeg Campus

An anonymous questionnaire for a student project at the University of Winnipeg. All written responses are optional. Please do not disclose any...

Interview Questions for long-term student (1yr plus navigating campus):

- 1 How many years of experience do you have navigating the university campus?
- 2 How familiar are you with the buildings in the main campus?
a) Buildings outside the main campus?
- 3 What kinds of resources do you use to navigate the campus?
- 4 What kind of landmarks have you used to find your way around the campus?
- 5 Are you familiar with the current campus map? Show pdf
a. What are some things you like and dislike about this map?
- 6 Do you currently have or had a disability that required you to modify how you navigate the campus?
- 7 Do you have any other thoughts on finding your way around the University of Winnipeg Campus?
- 8 Do you have a smartphone? If yes, have you used navigation apps on it?

1. 7 years - high school
 2. pretty familiar 5
a) not as much 1
 3. ask security, landmarks, pdf map
 4. cafeteria, help desks, mutual knowledge
 5. about 5 times
a) limited colours, diff buildings colour coded, small, icons are good, good grouping
 6. no
 7. location sharing & ppl
 8. yes, google maps, apple maps
- elevators - not very well marked
- signage - poorly labeled buildings