

Canadian  
Centre for Research  
Analysis  
and Methods  
(CCRAM)

Rocky Mountain Methodology Academy  
July 16-27, 2024  
Calgary, Alberta, Canada



#rmma2024

Welcome!

Thank you for your decision to come to our annual Rocky Mountain Methodology Academy in Calgary!

As you know, science is an inherently collaborative and social process, yet it hasn't always felt that way over the last few years. Many of the organizations that used to offer in-person training in data analysis and research design switched to online instruction during the pandemic and decided, for various reasons, not to return to face-to-face learning. And several new online-only vendors have popped up recently as well. We are bucking that trend here at the Canadian Centre for Research Analysis and Methods by recognizing that there simply is no substitute for the excitement and opportunities that come from learning in a physical classroom surrounded by burgeoning and veteran scientists interacting in real time and in high definition with expert instructors in their disciplines.

Whether you are in town for just a few days or a couple of weeks, you will find each day intellectually stimulating and demanding, and you will return to your accommodation filled with new knowledge and with deeper social connections than when you started the day. And we hope that after class and between sessions, you get out and experience some of what Calgary has to offer, including its culture, culinary scene, and some amazing views. But as you explore, you will recognize that there is just so much here, and you'll never see all there is to see and do all that there is to do. You'll have to come back, and we hope you do. Indeed, to those of you who are here this year who came last year too, we are confident your experience this year will be as good or better than before.

I believe you will find that the trust you placed in us to spend your time and research resources here in Calgary was well placed and that you will want to spread the word to your colleagues, students, and friends to give us a try next time they seek an academic and social experience in a vibrant metropolitan city recognized as one of the top destinations and places to live and work in the world. We are excited you are here and hope to see you or your friends and colleagues again in July 2025.



Andrew F. Hayes, PhD  
Director  
Canadian Centre for Research Analysis and Methods

**Academy  
schedule**

**July 16-17, 2024**

**Introduction to Structural Equation Modeling** (Dr. Doug Baer, University of Victoria)

**Introduction to Social Network Analysis** (Dr. Jenny Godley, University of Calgary)

**July 18, 2024**

10.00am: Guest Speaker (Dr. Jacob Coutts, University of Maryland)

3.00pm: Keynote Address (Dr. Jessica Flake, McGill University) with reception to follow

**July 19-20, 2024**

**Scale Development and Psychometrics** (Dr. Jessica Flake, McGill University)

**Introduction to Multilevel Modeling** (Dr. Jason Rights, University of British Columbia)

**July 21, 2024**

Banff Trip; bus leaves at 8.00am outside the main doors of Scurfield Hall/Mathison Hall at the traffic circle

**July 22-23, 2024**

**Introduction to Mediation, Moderation, and Conditional Process Analysis** (Dr. Andrew Hayes, University of Calgary)

**Longitudinal Data Analysis and Visualization** (Dr. Andrea Howard, Carleton University)

**July 24, 2024**

1.00-4.00pm: Workshop on using generative AI in academic research (Dr. Piers Steel, University of Calgary). (\$129 tuition payment required in advance of the workshop).

**July 25-26, 2024**

**Mediation, Moderation, and Conditional Process Analysis: A Second Course** (Dr. Andrew Hayes, University of Calgary)

**Introduction to Mixed Methods Research** (Dr. Cheryl Poth, University of Alberta)

**July 27, 2024**

Banff Trip; bus leaves at 8.00am outside the main doors of Scurfield Hall/Mathison Hall at the traffic circle

**From the  
airport:**

Calgary is served by many domestic and international airlines. Upon arrival, take a taxi or ride share service to your accommodation. Alternatively, an express bus service (BRT Route 300) is provided by Calgary Transit from the airport to downtown, where you can connect with the CTrain system. There is no train or subway service from the airport currently.

**Academy  
location:**

Haskayne School of Business  
University of Calgary, Main Campus  
2500 University Dr NW  
Calgary, AB T2N 1N4 Canada  
(Scurfield and Mathison Halls)



**If using your phone for navigation on campus, have it direct you to “Mathison Hall,” which is at the intersection of Campus Gate NW & Campus Drive NW and not “2500 University Drive.” Some phone maps may misdirect you if you have it direct you to the “Haskayne School of Business.”**

**Class times** Classes are two days long. On the first day of class, please arrive no later than 8.45 for a brief orientation. Please check in at the registration desk outside of the classroom. Classes will begin at 9.00am and will end no later than 5.00pm each day. **Please sign in at the desk when you arrive each day.** There will be an hour break for lunch around 12.30pm each day and a few short breaks throughout the day at times at the discretion of your instructor.

**Locating  
Classrooms**

**Entering lower Mathison Hall (First Floor)**

1. Enter through the first-floor entrance of lower Mathison Hall (marked MTH). Clear signage will be present to guide you.
2. Proceed straight, passing the Deloitte Student Room on your immediate left.
3. Take the first left turn.
4. Continue down the hall to the RMMA registration booth, located outside the RMMA session classrooms.

***Additional signage will be placed along this path to assist in guiding participants.***

**Entering from Lot #32 or the Mathison Hall Traffic Circle (Second Floor)**

1. Proceed to the Mathison Hall (MTH) / Scurfield Hall (SH) entryway. This will allow you to enter on the second floor. The doors will be marked accordingly.
2. Upon entering, take a right and proceed through the scaffolding tunnel.
3. After exiting the tunnel, take the first immediate left and walk to the end of the hall, then take a left.
4. In this hallway, there are two elevators. One is located before the 24/7 Mathison Snack Shop, and the other is further down the hall, past the washrooms but before the stairwell.
  - If taking the nearest elevator, descend to the first floor, take an immediate right upon exiting, and continue down the hall to the registration tables outside the RMMA session classrooms.
  - If taking the farther elevator, descend to the first floor, take an immediate left upon exiting, and proceed to the registration table outside the RMMA session classrooms.

***Additional signage will be placed along this path to assist in guiding participants.***

**Getting to  
campus and  
classrooms**

The University of Calgary is in the Northwest quadrant of Calgary at the intersection of 24<sup>th</sup> avenue NW and Crowchild Trail. The university address is 2500 University Drive NW, but this is not the physical location of the business school on campus. **The Haskayne School of Business is in Scurfield and Mathison Halls at the intersection of Campus Gate NW and Campus Drive NW in the southeast corner of campus.**

If you are driving to campus, pay parking is available for \$9 per day in **Lot 32**, across from Scurfield Hall/Mathison Hall. You will find an interactive map at <https://ucalgary.ca/about/our-campuses/campus-maps-and-room-finder>

If you are staying in Kensington or downtown, Calgary's light rail train (CTrain) stops at the University station. The University station is on the red line. Take the train headed to Tuscany. When arriving at the University station, turn left when leaving the station building to get to campus, and it is only a brief walk to the Haskayne School of Business from the station. There is a large campus map to guide you once you arrive on campus from the train station.

If you are staying in the University District at the Alt Hotel or on campus, you can walk. The Haskayne School of Business is about a 20-minute walk from the Alt hotel and just a few minutes from on-campus housing at International House.

If you are staying in one of the hotels in the Banff Trail area, you can walk to campus or take the CTrain from the Banff Trail station one stop northwest to the University station. It is about a 10- to 15-minute walk. Walk across the foot bridge at the Holiday Inn to the stadium parking lot and head north to along Crowchild Trail on the footpath to the intersection of 24<sup>th</sup> and Crowchild Trail. Campus is across the street. Alternatively, cross the train tracks at the Banff Trail station, turn left, and walk-up Capitol Hill Crescent NW to the intersection of 24<sup>th</sup> and Crowchild Trail. Use the crosswalk at the intersection to campus.

**Refreshments, breakfast, and lunch** Coffee, tea, and water will be provided throughout the morning, along with a light continental breakfast available between 8.00am and 9.00am outside of the classrooms. Lunch can be purchased from a variety of food vendors in MacEwan hall on campus and a brief walk from the Haskayne School of Business. There is also a food vendor on the 2<sup>nd</sup> floor of Mathison Hall that is open until the early afternoon.

**Required Course Materials** Required materials for each course will be provided on the first day of each session unless your instructor otherwise contacts you earlier with specific directions for obtaining course materials. It is highly recommended that you bring a fully charged laptop each day with software used in the class already installed, unless your instructor has advised you otherwise. See your course descriptions at [ccramsessions.com](http://ccramsessions.com) for software used in your class. Outlets for charging will be available in the classrooms.

**Internet access** Wireless internet access is available in and around your classroom. Login information will be provided on the first day of class.

**Banff trip** Your tuition includes an optional day trip to Banff after session 2 on July 21 and after session 4 on July 27. The bus leaves the traffic circle at the main entrance to Mathison Hall in the morning at 8.00am and drops you off in Banff about 90 minutes later. You will have the late morning and all afternoon to explore the Banff area on your own. The return trip leaves Banff in the late afternoon. Exact pick-up time and locations will be announced on the day of the trip. You must sign a waiver to get on the bus. It is your responsibility to be on time. We recommend arriving at least 10 minutes before the scheduled departure. You assume all responsibility for any losses or expenses if you miss the return bus and must find your own way back from Banff. If you would like to take a travel companion with you to Banff, the price per person is \$10. This must be arranged 48 hours in advance of the trip. Contact the Academy staff or email [ccram@ucalgary.ca](mailto:ccram@ucalgary.ca).

**Guest speaker and keynote address** Two research methods-related talks will be delivered on Thursday July 18, 2024, and they are free of charge to Academy participants. The morning lecture will be given by Dr. Jacob Coutts of the University of Maryland at 10.00am in Scurfield Hall 257. The keynote address in the afternoon



will be delivered by Dr. Jessica Flake of McGill University at 3.00pm in Scurfield Hall 257. A beer/wine/food reception will follow Dr. Flake's talk at 4.30pm. Please rsvp that you will be attending the keynote address to [ccram@ucalgary.ca](mailto:ccram@ucalgary.ca).

**Generative AI  
in Academia  
workshop**

Dr. Piers Steel of the University of Calgary will be presenting a workshop from 1.00pm to 4.00pm on July 24, 2024, on the use of ChatGPT in academic research. Tuition to attend this workshop is \$129. If you did not purchase this optional add-on when you paid your original tuition to attend courses at the Academy, you may still do so by contacting one of the CCRAM staff while the Academy is in session or by emailing [ccram@ucalgary.ca](mailto:ccram@ucalgary.ca).

**Social media**

We encourage you to post your experiences at Rocky Mountain Methodology Academy on social media. Please use hashtag **#rmma2024**. The Canadian Centre for Research Analysis and Methods has a presence on various social media channels and the staff will occasionally be posting throughout the two weeks that classes are in session.

**Contact  
information**

CCRAM staff will be available outside of the classrooms for much of the day on most days. Feel free to approach us if you have any questions or concerns. You can also email [ccram@ucalgary.ca](mailto:ccram@ucalgary.ca) for nonurgent matters. Staff can also be contacted by calling 403-220-6600.

**Restrooms**

Gendered and gender-free restrooms are available throughout Mathison and Scurfield Halls on all floors. Staff can direct as you as needed.

**Fitness**

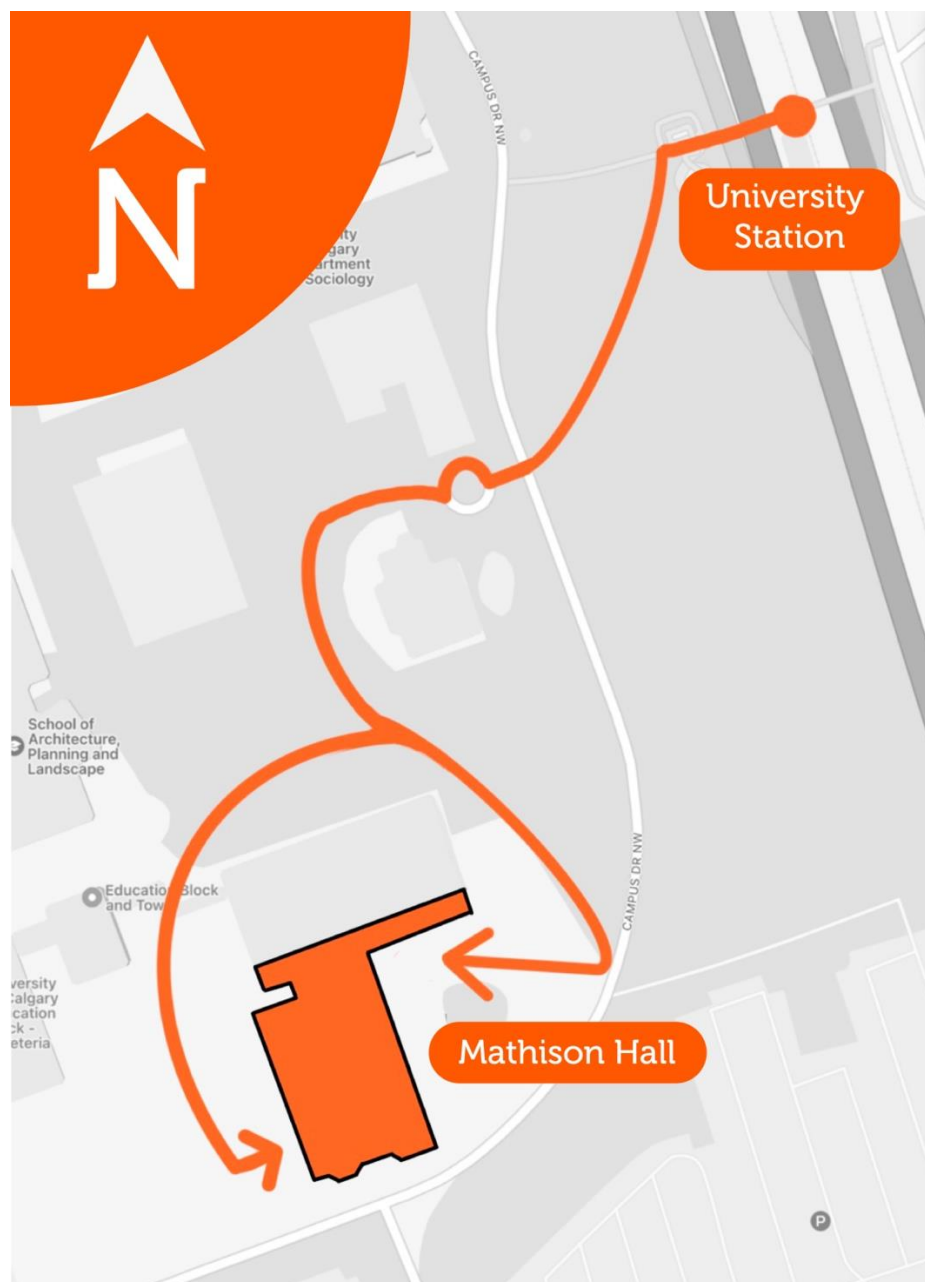
Academy participants staying in University of Calgary on-campus housing can purchase a daily pass to fitness centres on campus. Contact the registration desk where you checked in for additional information.

**Attire**

Mathison Hall is a LEED Certified Building. Heating and cooling in LEED Certified Buildings may be different than traditional facilities. We kindly ask that participants dress appropriately in light layers to accommodate the different temperature levels that can occur. Also please recognize that the University of Calgary is a "Fragrance-Free" learning environment. For the comfort of all attending, we ask that you please avoid the use of perfumes, colognes, and body sprays.

## Access from University CTrain Station

Below is a map of the walking route from the University CTrain Station to Mathison Hall. Follow the orange line, which will lead you to either the Lower Mathison entrance on Level 1 or the Mathison Hall entrance on Level 2, beside the Mathison Hall traffic circle. This is roughly a 5-minute walk. Please see the navigation guide on Page 3 to locate the appropriate classrooms once inside the building.



## Access from the International House

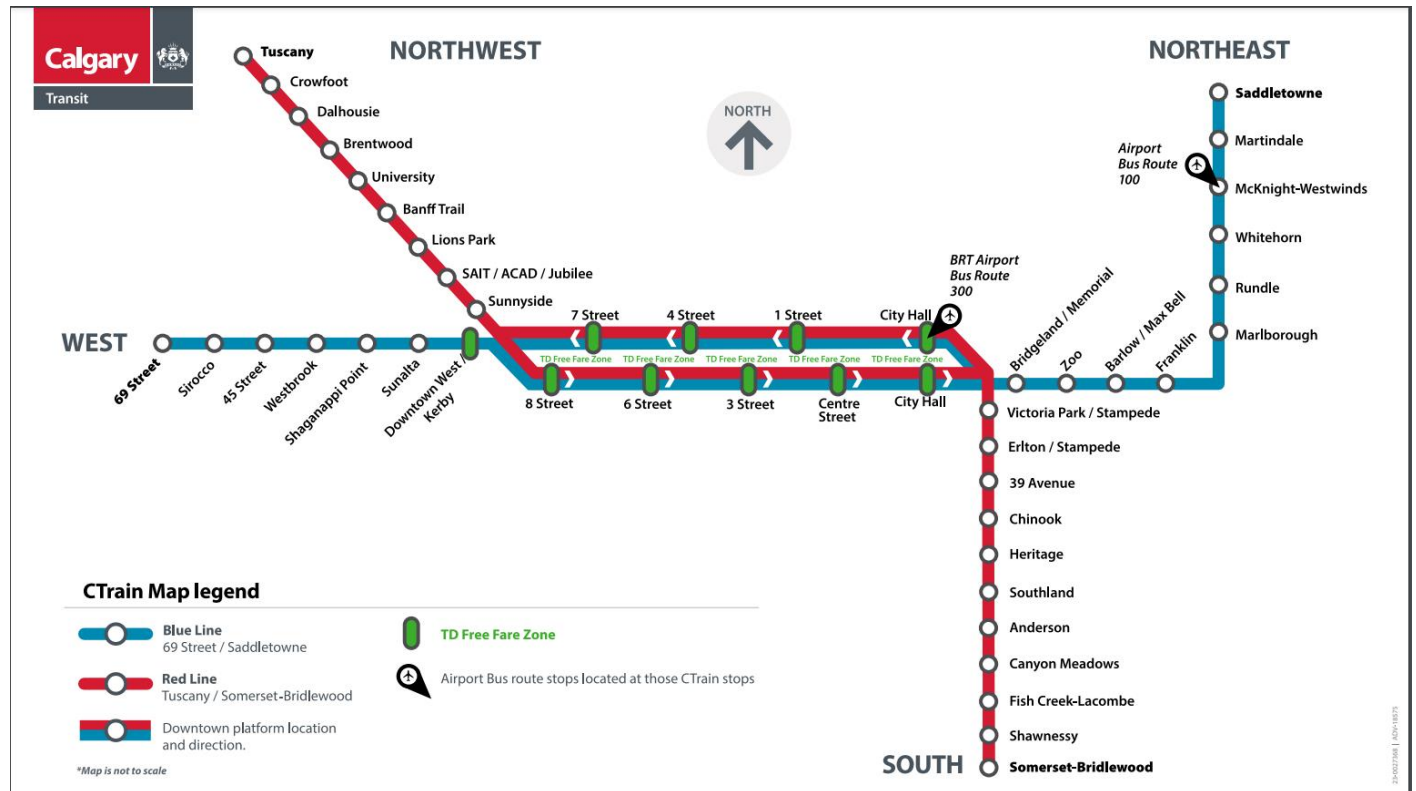
Below is a map of the walking route from the International House to Mathison Hall. Follow the orange line, which will lead you to either the Lower Mathison entrance on Level 1 or the Mathison Hall entrance on Level 2, beside the Mathison Hall traffic circle. Please see the navigation guide on Page 3 to locate the appropriate classrooms once inside the building.





## City of Calgary LRT CTrain Map

Below is the map of the City of Calgary LRT CTrain Map as well as link to the Calgary Transit website for additional information: <https://www.calgarytransit.com/home.html>



A CTrain fare is \$3.70 per trip. Tickets are available at kiosks at each station as well as through the Calgary Transit app and they are good for 90 minutes from purchase (from kiosk) or activation (on the app). There is no charge for CTrain in the downtown core between the Downtown West/Kirby stations and City Hall stations. If you plan on taking the train more than twice in one day, consider a day pass.

## **Parking**

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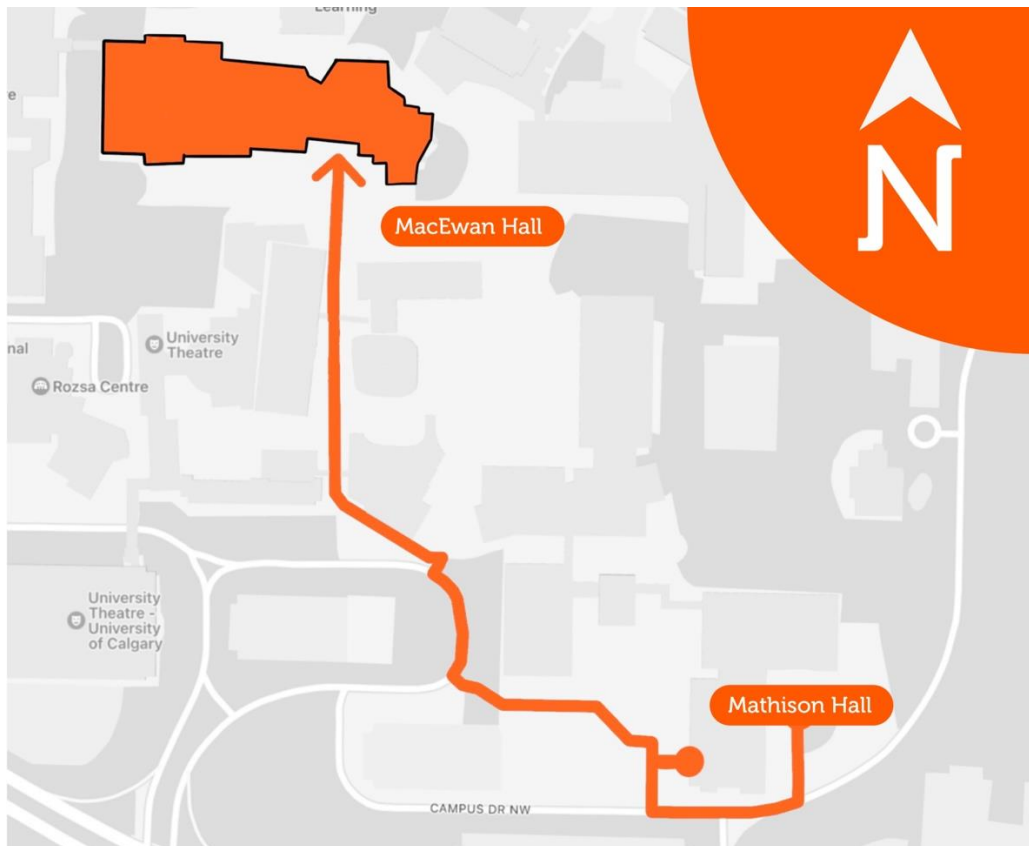
The Haskayne School of Business is located in Mathison and Scurfield Halls, situated in the southeast corner of the University of Calgary main campus.

Parking is available in pay lot 32 and the Art Parkade west of University Drive.



## **Lunch Options**

Lunch is available for purchase at various food vendors at MacEwan Student Centre (MSC). These adjoining buildings are roughly a 5-10 minute walk from Mathison Hall.



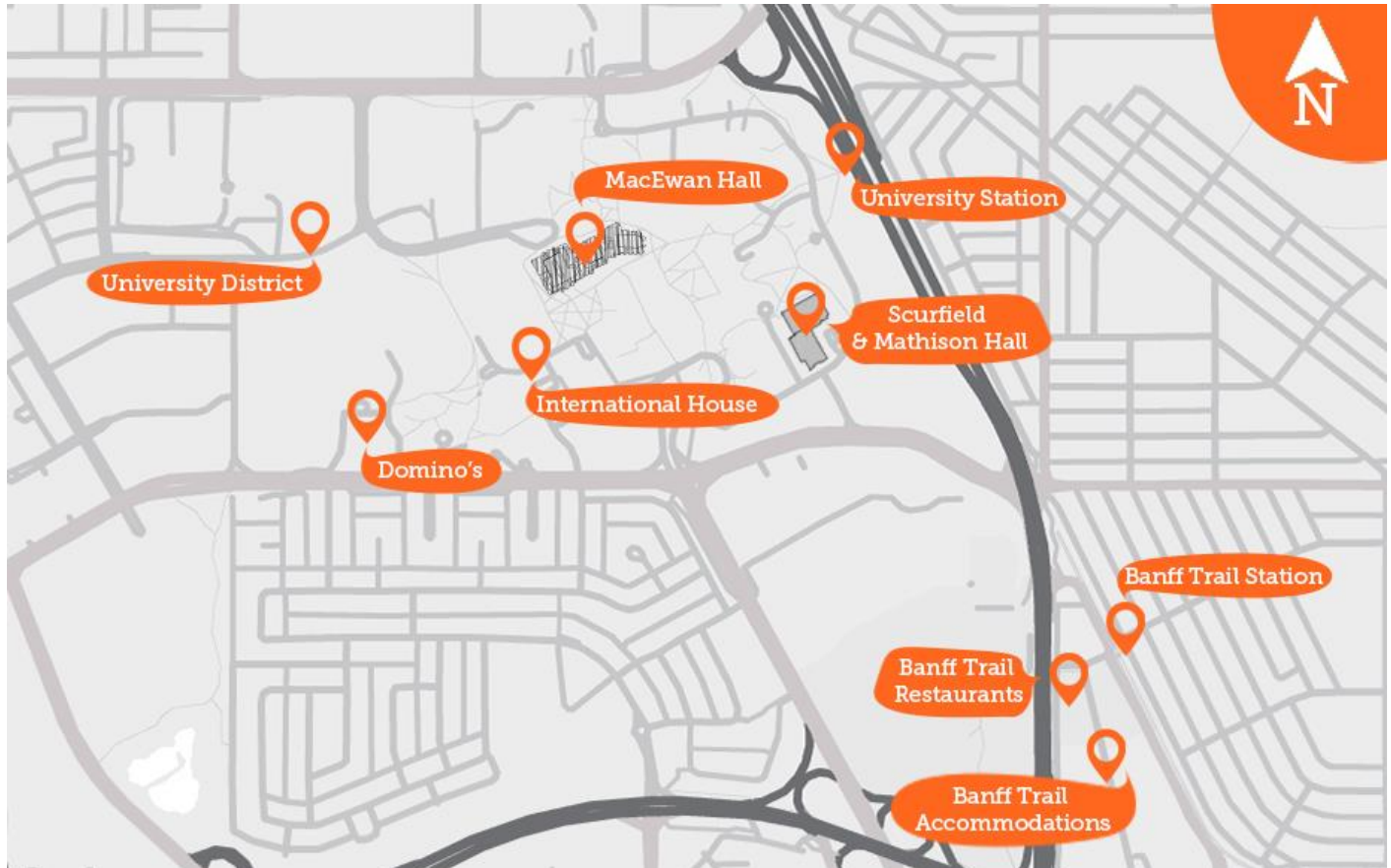
Food vendors include:

- A & W
- Bake Chef
- Carl's Jr.
- Coffee Company
- Dairy Queen & Orange Julius
- Jugo Juice
- Kobe Beef
- Fresh Poke
- Noodle & Grill Express
- OPA! Of Greece
- Oriental Wok
- Starbucks
- Subway
- Tim Hortons
- Umi Sushi Express

\*Please note that not all above options may be available due to summer hours

## University Surroundings

Below is a broad map that contains main points of interest near the University of Calgary's Campus.



- Banff Trail Accommodations
  - Econo Lodge Motel Village
  - Best Western Plus Village Park Inn
  - Hampton Inn & Suites
  - Econo Lodge Inn & Suites
  - Ramada Limited
  - Comfort Inn & Suites
  - Holiday Inn Express
- University District accommodations
  - Alt Hotel University District

## **Tourism in Calgary**

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You'll have to come back to Rocky Mountain Methodology Academy next year to get to experience all of Calgary because there is just too much to do in one trip. But here is some information to get you started.

Visit Calgary: <https://www.visitcalgary.com/>

Popular attractions are:

- Prince's Island Park (<https://www.calgary.ca/parks/princes-island-park.html>)
- Calgary Zoo (<https://www.calgaryzoo.com/>)
- Calgary Tower (<https://www.calgarytower.com/>)
- Heritage Park (<https://heritagepark.ca/>)
- Glenbow Museum (<https://www.glenbow.org/>)
- Fish Creek Provincial Park (<https://www.albertaparks.ca/parks/kananaskis/fish-creek-pp/>)
- The Military Museum (<https://themilitarymuseums.ca/>)
- Studio Bell (<https://www.studiobell.ca/>)
- Fort Calgary (<https://www.fortcalgary.com/>)
- Stephen Ave (<https://www.calgary.ca/planning/projects/stephen-avenue.html>)
- Peace Bridge (<https://www.calgary.ca/bike-walk-roll/peace-bridge.html>)
- Nose Hill Park (<https://www.calgary.ca/parks/nose-hill-park.html>)

## **City Views**

Alberta is considered by most a flat province in the Canadian plains. But Calgary is in the foothills of the Rocky Mountains, and with the Bow River running through the downtown valley, Calgary is actually quite hilly. There are many places to catch great views of the city and surrounding area. Some of the views can found at

- McHugh Bluff Park (across the Bow River from Prince's Island Park, up the stairs near the curling club).
- Toronto Crescent (approximately 2564 Toronto Crescent NW, near the university).
- West Hillhurst (the top of the leash-less dog park hill at about 19<sup>th</sup> Ave NW and 7<sup>th</sup> Ave NW).
- SAIT Polytechnic Parking lot P1 (above Riley Park in Hillhurst/Kensington).

For a view of all of Calgary and its surrounding suburbs and the Canadian Rockies, take a hike at Nose Hill Park.  
<https://www.calgary.ca/parks/nose-hill-park.html>

## **Bicycling**

Calgary has numerous bicycling trails, including pathways along the Bow River near and through downtown. You can rent a bicycle from <http://joesgarage.mobi/rentals.html> on the downtown side of the river near the 10th street and CTrain bridges across from Kensington.

## **Walking the Bow River and Prince's Island.**

On any given day you will find many people walking the Bow River pathways north of downtown, on the Kensington side of the Bow River, and Prince's Island Park. Make sure you cross the Peace bridge so you can say you did.



### **Rafting on the Bow River**

The Paddle Station at <http://paddlestation.ca> rents kayaks and rafts riverside with all the necessary equipment for rafting down the Bow River that passes through downtown Calgary.

### **Wander the Beltline**

The beltline is a chic area to the south of downtown where you find many restaurants, bars, and shops. Walk to 17<sup>th</sup> avenue, which is the spine of the beltline, south of downtown.

### **Stampeders' Football**

The Calgary Stampeders are in the Canadian Football League and play their games in McMahon stadium next to the University of Calgary campus. The "Stamps" play at home on Sunday July 21<sup>st</sup> against the BC Lions. The game starts at 5pm. Tickets and information are available at <http://stampeders.com>

### **The Sentry Box**

If you are a board game or general (nonvideo) game fan, you need to check out The Sentry Box, 1835 10 Ave SW near the Sunalta stop on the Blue Line <https://www.sentrybox.com>. It is recognized as the world's largest game store. And while you are there, pop across the street to Two House Brewing for a locally crafted beer and a good pizza.

## **Eating in Calgary**

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Calgary is a food town. You will find numerous restaurants throughout the downtown as well as in the Kensington neighbourhood (The Kensington neighbourhood can be reached via the Sunnyside CTrain stop or walking across the Bow River from downtown). Some of the best restaurants in Canada are in Calgary. Reservations are recommended, but walk-ins are often available, especially at restaurants along Stephens Avenue near the conference hotels and convention centre in the eastern end of downtown. A few recommended options include

- Model Milk (<https://www.modelmilk.ca/>)
- Native Tongues Taqueria (<https://www.nativetongues.ca/>)
- Charcut Roast House (<https://www.charcut.com/>)
- UNA Pizza + Wine (<https://unapizzeria.com/>)
- Foreign Concept (<https://foreignconcept.ca/>)
- Rouge Restaurant (<https://rougecalgary.com/>)
- Major Tom (<https://www.majortombar.ca/>)
- The Wilde on 27 (<https://www.thewilderooftop.com/>)
- Alloy (<https://alloydining.com/>)
- Ten Foot Henry (<https://www.tenfoothenry.com/>)
- CRAFT (<https://www.craftbeermarket.ca/locations/calgary-downtown/>)
- Calcutta Cricket Club (<https://www.calcuttacricquetclub.com/>)
- Shokunin (<https://shokuninyyc.ca/>)
- Queen's Breakfast (<https://queensyyc.ca/>)
- Fortuna's Row (<https://fortunasrow.com/>)
- River Cafe (<https://river-cafe.com/>)
- Donna Mac (<https://www.donnamacyyc.ca/>)
- Monki Breakfast Club and Bistro (<http://monkibistro.ca/>)

- Fonda Fora (<http://fondafora.com/>)
- Wine Bar (<http://winebarkensington.com/>)
- Pulcinella (<https://www.pulcinella.ca/>)
- Charbar (<http://www.charbar.ca/>)
- Lonely Mouth (<http://www.lonelymouthbar.com/>)
- Cinnamon (<http://cinnamoncalgary.ca/>)
- Noble Pie Pizza (<http://www.noblepiepizza.com/>)
- Bonterra Trattoria (<http://bonterra.ca/>)
- Khao San Thai Kitchen (<http://khaosanthaikitchen.ca/>)

#### Some dining options near the university area include

- OEB Breakfast Co. (University District)
- Freshii (University District)
- barBURRITO (University District)
- The Banquet (University District) (<https://thebanquetbar.com/>)
- Osmow's Shawarma (University District)
- Five Guys (University District)
- Sesame (University District)
- UC Noodle (University District)
- Canadian Brewhouse (University District) (<https://thecanadianbrewhouse.com/>)
- Borough Bar & Grill (University District) (<https://www.boroughbar.ca/>)
- Green Chili's (Banff Trail) (<https://www.greenchili.ca/>) The vegetable pakoras here are divine.
- Clay Pot Asian Kitchen (Banff Trail) (<http://claypotmcmahon.com>)
- Nick's Steakhouse and Pizza (Banff Trail) (<http://nickssteakandpizza.com/>)
- Big T's BBQ (Banff Trail) (<https://bigtsbbq.com/>)
- Joey's Seafood (Banff Trail) (<https://joeys.ca/locations/alberta/mcmahon-stadium>)
- Jameson's Pub (Brentwood) (<https://www.jamesonspubs.com>)
- Edelweiss Village (Capitol Hill) (<https://edelweissimports.com>). A European deli, café, and various sundries.
- Last Defence Lounge (on campus, very limited summer hours) (<https://www.lastdefencelounge.ca>)

If your class is held on a Thursday or Friday, the Last Defense Lounge, run by the Graduate Student Association and in the MacEwan Student Centre, is open until 7pm on Thursday and Friday and has a full menu and bar. Closed on the weekend and at 3pm on Monday through Wednesday.

#### Breweries and Cider

There are dozens of breweries in Calgary, many of which also serve food. See <https://yycbeer.ca>. Some of them can be found in clusters in the downtown area. Some nearby options include:

##### On the red CTrain line southeast of downtown (in the "Barley Belt"):

- The Establishment Brewing Company; 4407 1 St SE  
<https://establishmentbrewing.ca>
- Cabin Brewing Company; 505 36 Ave SE  
<https://www.cabinbrewing.ca>
- Banded Peak Brewing; 519 34 Ave SE #119  
<https://www.bandedpeakbrewing.com>

- Uncommon Cider Company (Cider only); 3921 Manchester Road SE  
<https://uncommoncider.com/pages/tap-room/>
- Also see the Barley Belt list at  
[https://yycbeer.ca/Map\\_zone/Calgary\\_Barley\\_Belt\\_Breweries/](https://yycbeer.ca/Map_zone/Calgary_Barley_Belt_Breweries/)

**In the beltline, a short walk from downtown CTrain stops:**

- Inner City Brewing; 820 11 Ave SW  
<https://www.innercitybrewing.ca>
- Last Best Brewing and Distilling, 607 11 Ave SW  
<https://lastbestbrewing.com>

**On the blue line in west downtown, Sunalta stop:**

- Tailgunner Brewing; 1602 10 Ave SW  
<https://www.innercitybrewing.ca>
- Two House Brewing Company; 1901 10 Ave SW  
<https://www.twohousebrew.com>  
(The Sentry Box is across the street. See above)

**A large selection of local and craft brews and a rooftop patio downtown can be found at**

Craft Beer Market; 345 10 Avenue SW  
<https://www.craftbeermarket.ca/locations/calgary-downtown/>

**or consider National on 10<sup>th</sup>** also with a rooftop patio. You'll find a bowling alley in the basement as well.

National; 341 10 Avenue SW  
<https://www.ntnl.ca/10th-avenue>

**For a nice cozy pub feeling, consider**

Kensington Pub; 207 10A St NW  
<https://www.kensingtonpub.com/>