

World 100 Study Tour 2018

University of Calgary

Calgary, Alberta, Canada | 1-2 October 2018



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Colleagues,

I am delighted to invite you to participate in this year's World 100 Study Tour at the University of Calgary in Alberta, Canada, in the foothills of the spectacular Rocky Mountains.

Join us and a small group of your colleagues from around the world for a dynamic two-day experience immersed in one of Canada's most entrepreneurial universities. Participate in interactive conversations about cutting-edge research and explore new ways of building reputation and community advocacy related to research innovation and discovery.

Learn about new ideas in teaching and learning that will fundamentally change the way students view and engage in their post-secondary education.

During your visit, we will introduce you to the unique and fascinating history of the province of Alberta — which, in addition to being a world leader in the energy industry, is also home to the richest source of dinosaur fossils in the world.

I look forward to seeing you in Calgary in October.

Diane Kenyon

Vice-President, University Relations
University of Calgary

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Your host university

University of Calgary

Located in in Calgary, Alberta, Canada, the University of Calgary is one of Canada's top comprehensive research universities — a place where research and innovative teaching go hand in hand and where we fully engage the communities we serve and lead.

With 14 faculties offering more than 250 academic programs, and more than 50 research institutes and centres, we prepare our 30,000+ students for success in life through a modern educational experience made rich by hands-on experience and entrepreneurial thinking. The creation and transfer of knowledge here contributes every day to Canada's global competitive advantage and addresses society's most persistent challenges.

Our main campus occupies a beautiful setting in the foothills of Alberta's Rocky Mountains, covering more than 200 hectares in an area steeped in Indigenous history. The university is situated on the traditional territories of the people of the Treaty 7 region in Southern Alberta, and the city is also home to Métis Nation of Alberta, Region III.

ucalgary.ca



Your host city

Calgary, Alberta, Canada

Calgary (pop. 1.4 million) sits in the sunny foothills of Canada's Rocky Mountains in the heart of the province of Alberta, the westernmost of Canada's three prairie provinces. A vibrant and ethnically diverse urban centre, it is surrounded on all sides by profound and unspoiled natural beauty — all under Alberta's magnificent 'big skies'.

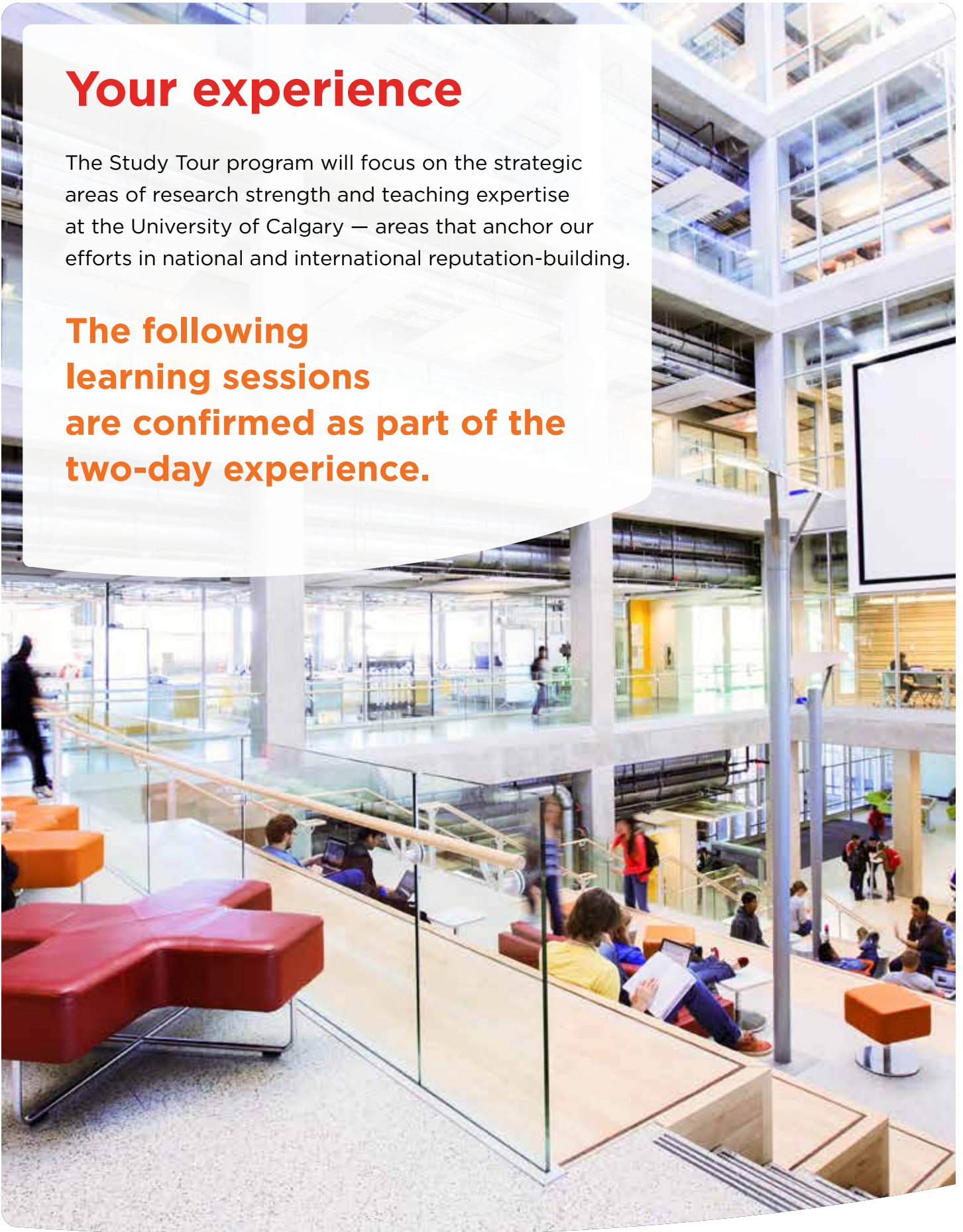
The region has all the benefits of a large, enterprising metropolitan centre but with a relaxed, friendly lifestyle typical of Calgary's legendary western hospitality (showcased annually at the internationally renowned Calgary Stampede festival). Calgary's dynamic and innovative spirit, young and worldly population, and clean and safe environment make it a world-class city.

visitcalgary.com

Your experience

The Study Tour program will focus on the strategic areas of research strength and teaching expertise at the University of Calgary – areas that anchor our efforts in national and international reputation-building.

The following learning sessions are confirmed as part of the two-day experience.



Energy and Environment

Decades from now, the world may be fuelling its energy needs entirely with renewable resources. Until then, a transition period will be required in which the extraction of existing fossil fuels will have to be made dramatically more efficient.

Dr. Steven Bryant, Canada Excellence Research Chair (CERC) in Materials Engineering for Unconventional Oil Reservoirs, is leading the way through UCalgary's Global Research Initiative in Sustainable Low-Carbon Unconventional Resources.

A pioneer in the use of nanoparticles for subsurface reservoir engineering and geological carbon dioxide storage, he is guiding a team of 270 researchers to apply a broad multidisciplinary approach that involves geoscientists, engineers, chemists and even microbiologists – the micro-organisms found underground have potential functions that could be utilized for energy production. Get energized as Dr. Bryant kicks off our study tour in his team's state-of-the-art labs in the LEED-platinum Energy Environment Experiential Learning (EEEL) building.

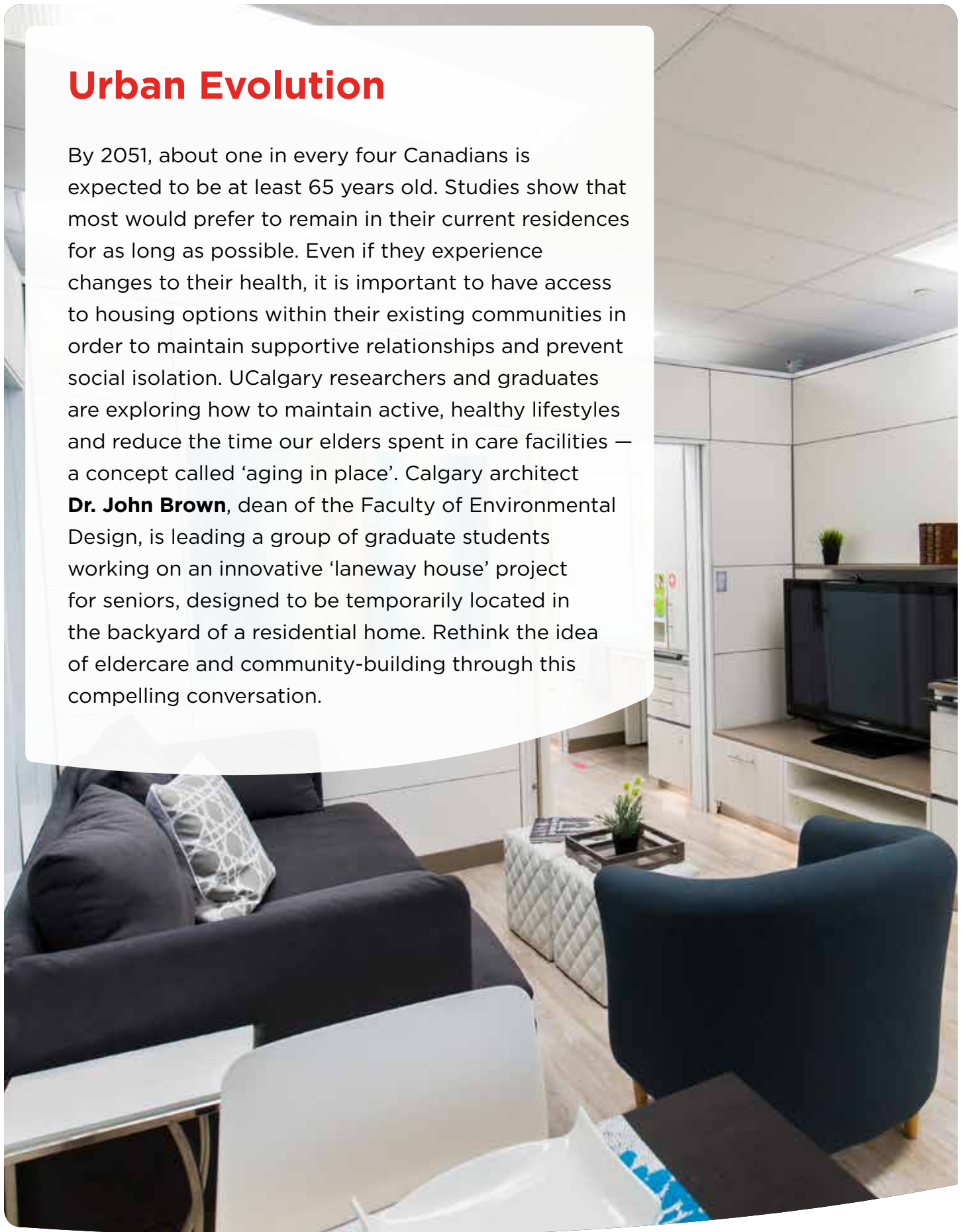
Human and Animal Health

Trillions of bacteria, viruses, parasites and fungi live in and around our bodies. Together, they make up the microbiome, which has been called the largest organ in the human body and been linked to a range of health issues, from asthma to diabetes to inflammatory bowel disease to obesity.

Dr Paul Kubes and **Dr. Kathy McCoy**, professors at UCalgary's Cumming School of Medicine and researchers at our International Microbiome Centre (IMC), will share the science of the microbiome and why it holds the key to better health. You'll get hands-on during this session at the IMC (opened 2017), which facilitates ground-breaking research into the prevention and treatment of chronic diseases. Designed to investigate the microbiome of plants, animals, and the physical environment, the centre offers a one-stop shop for research through a unique integration of mass cytometry, genomics, proteomics, bioinformatics, biobanking and live cell imaging. It's also home to one of the world's largest (929 square metres) germ-free lab dedicated to studying the microbiome's role in immunity and disease.

Urban Evolution

By 2051, about one in every four Canadians is expected to be at least 65 years old. Studies show that most would prefer to remain in their current residences for as long as possible. Even if they experience changes to their health, it is important to have access to housing options within their existing communities in order to maintain supportive relationships and prevent social isolation. UCalgary researchers and graduates are exploring how to maintain active, healthy lifestyles and reduce the time our elders spent in care facilities — a concept called ‘aging in place’. Calgary architect **Dr. John Brown**, dean of the Faculty of Environmental Design, is leading a group of graduate students working on an innovative ‘laneway house’ project for seniors, designed to be temporarily located in the backyard of a residential home. Rethink the idea of eldercare and community-building through this compelling conversation.



Our Place in the Universe

When we think about weather, we don't usually think about space, but phenomena like the aurora borealis can have profound impacts on our technology, our natural systems and our climate. UCalgary is a leader in space science, geomatics, and communications and satellite systems research, based on a long-standing partnership with the Canadian Space Agency and a network of international collaborators, including NASA. **Dr. Susan Skone** studies the physics of space weather and associated space weather hazards and their effects on global positioning system (GPS) signals, including impacts on high-precision applications such as surveying, mapping, hydrography, and aviation. Understanding the physical mechanisms affecting GPS systems can help us mitigate the effects on Earth. Learn about how space weather affects us every day.

How we Teach and Learn

Teaching and learning at universities has moved beyond traditional transfer of knowledge from the learned to the learning. In today's rapidly evolving world, educators are challenged with preparing students to succeed in jobs that don't even exist yet, in a world in which creativity and innovation are valued as much as knowledge. **Dr. Leslie Reid**, UCalgary's Vice-Provost of Teaching and Learning and **Dr. Jay Cross**, Director of the new College of Discovery, Creativity and Innovation in UCalgary's Taylor Institute for Teaching and Learning, will share the latest trends in teaching and learning, the transformations taking place beyond campus boundaries, and strategies for broader adoption of effective teaching and learning practices.



A Night at the Glenbow Museum

On the evening of Monday, October 1, at Calgary's Glenbow Museum, we welcome you to enjoy cocktails and dinner featuring Canadian local and Indigenous-inspired cuisine. In addition to networking with your international colleagues, we will feature additional learning opportunities:

Mavericks: An Incurable History of Alberta

Alberta was shaped by 'mavericks' — men and women who were adventurous, hard-working, and spirited. UCalgary's **Professor Aritha van Herk** is an acclaimed author, teacher and mentor who has made significant contributions to Alberta and Canadian literature. She will guide participants through the Mavericks exhibit at Calgary's Glenbow Museum, which includes over 700 artefacts, historic photographs, documents and maps that help tell Alberta's story. The exhibit is based on her book.

The Entrepreneurial University

Universities are knowledge enterprises that can foster rich ecosystems of discovery, creativity and innovation in their communities...but often, universities can be hampered by complex bureaucracy and systemic inertia. Is it possible to turn a public university into an entrepreneurial powerhouse? University of Calgary President and Vice-Chancellor, **Dr. Elizabeth Cannon** will share her experiences incorporating entrepreneurial thinking into the strategy and operations of one of Canada's leading public research universities.



Your comfort

October in Calgary

Autumn is a beautiful time in Calgary, but the weather can be unpredictable. The average temperature over the month of October is about 12° C (54° F), though it can dip below freezing. Calgarians are masters of the art of layering: bring clothing items that you can put on or remove as the temperature changes. If you're lucky, you may experience one of Calgary's famous 'chinooks' — periods of unseasonably warm wind that can cause extreme increases in temperatures within a few hours. You'll want to pack comfortable, non-slip footwear suitable for walking, a warm outer jacket, and sunglasses for those bright Alberta skies.

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