



# SUSTAINABLE FOOD SYSTEMS

ELIGIBLE FOR  
**FINANCIAL AID  
& AWARDS**  
[assiniboine.net/financialaid](http://assiniboine.net/financialaid)

9-MONTH  
ADVANCED  
DIPLOMA

Innovate new ways to grow, harvest and manage our food supply. Work closely with our instructors to help research different greenhouse models and find out how to improve food security in communities.

## PROGRAM LEARNING OUTCOMES

- » Analyze the social, economic, and environmental factors that contribute to food insecurity, and propose solutions that promote sustainable and equitable access to healthy food.
- » Apply horticultural practices and technologies, to increase yields and improve the efficiency of food production.
- » Evaluate the nutritional value and quality of horticultural products, and develop strategies to optimize their production and distribution to meet the needs of diverse communities.
- » Assess the risks and benefits of different horticultural production systems, including conventional, organic, and regenerative horticulture, and develop strategies to mitigate negative impacts and promote sustainability.
- » Design and implement food security programs and policies, in collaboration with community stakeholders, that address the root causes of food insecurity and promote long-term food security.
- » Evaluate the economic viability of different horticultural enterprises.
- » Use tools to analyze and optimize horticultural production and distribution systems, including supply chain management, transportation, and storage.
- » Develop and implement strategies to manage pests and diseases in horticultural crops, using sustainable and environmentally-friendly methods.
- » Manage and operate a greenhouse facility, including understanding the principles of greenhouse design, climate control, and irrigation systems.
- » Cultivate and manage a variety of crops in a greenhouse environment, including understanding plant physiology, growth requirements, and pest and disease management strategies specific to greenhouse crops.
- » Understand and comply with relevant safety regulations and guidelines, including those related to chemical handling, equipment operation, and personal protective equipment.
- » Communicate effectively with diverse stakeholders, including horticulturalists, policymakers, community members, and industry professionals, about food security issues and solutions in the horticultural sector.



**Campus/Delivery Options**  
North Hill campus



**Available Intakes**  
September | January



**Work Integrated Learning**  
3 weeks

## This program is a good fit if you would enjoy...

- ✓ A nine-month program to build upon your previous education including related fields, such as environmental science, biology, nutrition, or public policy, and want to specialize in sustainable food systems and food security
- ✓ Learning more about sustainable agriculture practices and how to grow and market crops in a sustainable and environmentally-friendly way
- ✓ Passionate about food justice, food access, and food sovereignty, and want to develop the knowledge and skills to effect positive change in communities
- ✓ Starting or expanding a sustainable food-related business
- ✓ Interested in the intersection of food systems and health outcomes, and who want to develop the knowledge and skills to promote healthy and sustainable food access in communities
- ✓ Potential to work in a variety of communities and rural settings
- ✓ Collecting, organizing, and analyzing data to solve problems

## EXPECTATIONS

### Program & Industry

- » Have physical strength and stamina as well as the mobility and motor skills to undertake the required tasks.
- » Work in outdoor settings in varied terrain.

## CAREER OPPORTUNITIES

Food security • innovation in food production at the local, national or international level • private sector • government First Nations' organizations • research

## ADMISSION REQUIREMENTS

- » Two-year diploma or university degree

# NEXT STEPS

Confidence in the career path you choose to embark on is key, and selecting the right program for you is the first step. At Assiniboine, we offer an opportunity to explore and experience a program before applying.

## SPEND A DAY WITH US

Our Spend a Day program runs from November to March for most programs. When you spend a day at Assiniboine, we partner you with a current student in the program of your choice and you will have the opportunity to:

- » Participate in classroom activities
- » Experience college life
- » Explore all of our helpful services for students
- » Meet current college students and instructors
- » Enjoy a free lunch on us!

## ATTEND AN ONLINE INFO SESSION

Our free, live online information sessions give you the inside scoop on our college, the program you're interested in and life at Assiniboine. Register in advance and from the comfort of your own home, log in to learn what Assiniboine has to offer.

[assiniboine.net/experienceACC](http://assiniboine.net/experienceACC)

## STILL NOT SURE?

Contact our recruitment team to arrange a campus tour or an appointment to discuss your career options.

## APPLY TODAY

[assiniboine.net/applynow](http://assiniboine.net/applynow)

