



**RUSS EDWARDS
SCHOOL**
Agriculture & Environment

SUSTAINABLE FOOD SYSTEMS

9-Month Advanced Diploma

ELIGIBLE FOR
FINANCIAL AID
& AWARDS

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 various 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

You might be a good fit for this program 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.
- ✓ Learning more about sustainable agriculture practices and how to grow and market crops in a sustainable and environmentally-friendly way.
- ✓ harnessing your passion about food justice, food access, and food sovereignty, and developing the knowledge and skills to effect positive change in communities.
- ✓ Starting or expanding a sustainable food-related business.
- ✓ Finding out more in the intersection of food systems and health outcomes, and developing the knowledge and skills to promote healthy and sustainable food access in communities.
- ✓ Working 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.
- A valid driver's license and access to a vehicle is strongly recommended given the potential need to travel for practicum placement.

CAREER OPPORTUNITIES

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

ADMISSION REQUIREMENTS

- A 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. Choose to:

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 so you 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 INFO SESSION

Join our free live online info sessions to get the inside scoop on your program of interest and life at Assiniboine. Register in advance and log in from home to learn about Assiniboine.

assiniboine.net/experienceassiniboine

Ready to start?
APPLY NOW!



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