



**RUSS EDWARDS  
SCHOOL**  
Agriculture & Environment



# DIGITAL AGRICULTURE TECHNOLOGY

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

**2-YEAR  
ADVANCED  
DIPLOMA**

Learn to bridge traditional agricultural practices with innovative digital technologies to equip you with the skills needed to thrive in today's data-driven agricultural landscape.

## PROGRAM LEARNING OUTCOMES

- » Apply fundamental GIS concepts and tools to analyze and manage geospatial data.
- » Use GIS industry standard ESRI software to create maps, dashboards and other visualizations that effectively communicate spatial information to the public.
- » Interpret and analyze geospatial data using a variety of analytical techniques and methods so the data can be positioned in such a way as to tell a story to the intended audience.
- » Collect, process, troubleshoot and integrate geospatial data from multiple sources into a cohesive GIS project.
- » Design and implement a GIS database that effectively manages spatial data.
- » Use GIS to solve real-world problems in a variety of fields.
- » Effectively communicate GIS findings to diverse audiences, including technical and non-technical stakeholders.
- » Apply basic cartographic principles to design effective maps for a variety of purposes.
- » Demonstrate an understanding of GIS ethics and best practices, including data privacy, accuracy, and integrity.
- » Work effectively as part of a team to complete a GIS project, including project planning, data management, analysis, and visualization.
- » Demonstrate knowledge and awareness of precision agricultural systems including the installation, monitoring, calibrating and diagnostics involved.
- » Apply agro-ecology and environmental land management practices to agricultural land use and landscapes.
- » Evaluate and implement risk management strategies for agricultural operations.
- » Evaluate and apply commodity market management principles in the agribusiness sector.
- » Design cropping systems and apply effective practices in crop production systems in Western Canada including integrated approaches.
- » Develop integrated pest management systems and apply assessment techniques, field scouting procedures, and appropriate record keeping.

For a full list of program learning outcomes, visit [assiniboine.net/digitalag](https://assiniboine.net/digitalag)



**Campus/Delivery Options**  
Victoria Avenue East campus



**Available Intakes**  
September 2024



**Learn by doing**

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

- ✓ A career in Canadian agricultural industry and food production markets
- ✓ Working in urban and rural communities, indoors and outdoors
- ✓ An advanced career with transferable technology skills
- ✓ Operating specialized computer hardware and software
- ✓ Customizing geographic information and convey digital information visually
- ✓ Collecting, organizing, interpreting, and analyzing data
- ✓ Understanding agricultural production and industry collaboration

## EXPECTATIONS

### Program & Industry

- » Be able and willing to travel. A valid driver's license and access to a vehicle is strongly recommended given the need to travel for outdoor field lab activities and your work co-op placement.
- » Maintain strong customer and client relationships, by being able to quickly problem solve and deal with customer conflicts and complaints in a professional manner.
- » Apply business practices to cropping, livestock or mixed farm operations.
- » Be self-motivated and results-oriented with the ability to deliver strong results in an often-unsupervised environment.
- » Be able to solve novel, ill-defined problems in complex, real-world settings.
- » Exercise judgment and decision-making, considering the relative costs and benefits of potential actions to choose the most appropriate one.
- » Monitor and assess individual performance, and to make improvements or take corrective action.
- » Be equally comfortable working in a structured environment, such as an office, but also in an outdoor setting.

## CAREER OPPORTUNITIES

Technician/technologist in automation • control system design • electronics design • mechanical design robotics • manufacturing • product development instrumentation engineering

## 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)



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

**ASSINIBOINE**  
COMMUNITY COLLEGE