



**RUSS EDWARDS
SCHOOL**
Agriculture & Environment

ELIGIBLE FOR
**FINANCIAL AID
& AWARDS**

GEOGRAPHIC INFORMATION SYSTEMS

8-Month Advanced Diploma

A specialized technology program that focuses on techniques that allow users to capture, store, analyze, and present geographic data in user friendly interfaces such as interactive maps and dashboards.

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 industries.
- ▶ 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

For a full list of program learning outcomes, visit assiniboine.net/gis

You might be a good fit for this program if you would enjoy:

- ▶ An eight-month program to build upon your previous education and career interests.
- ▶ Advancing your career through learning a transferable technology skill that every industry employs.
- ▶ Working with interdisciplinary teams to solve real-world problems using cutting-edge technology.
- ▶ Learning to operate specialized computer hardware and software and peripheral equipment to model, manage, analyze, and display data.
- ▶ Enjoy working with computers to customize geographic information and convey digital information in visual ways.



Campus/Delivery Options
Victoria Avenue East campus



Available Intakes
September



Work Integrated Learning
Learn by Doing

EXPECTATIONS

Program & Industry

- ▶ 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 make improvements or take corrective action.
- ▶ Work in a structured environment, such as an office, but also in an outdoor setting, collecting data.

CAREER OPPORTUNITIES

Surveying • remote sensing • cartography • photogrammetry • government • utilities • mapping • software and app development • agriculture • forestry • criminology • architecture • engineering • urban planning

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!

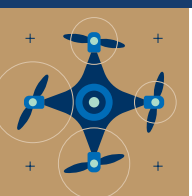
assiniboine.net/spendaday

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/infosessions

Ready to Start?
APPLY NOW!



assiniboine.net/gis