



**RUSS EDWARDS
SCHOOL**
Agriculture & Environment

LAND & WATER MANAGEMENT

ELIGIBLE FOR
**FINANCIAL AID
& AWARDS**
assiniboine.net/financialaid

2-YEAR
DIPLOMA

Learn how ecosystems are affected by soil, water, plants, and animals, and how the diversity and health of these organisms serve as the foundation for the program's capstone project. In this project, students collaborate with industry partners to solve local environmental challenges while balancing land use.

PROGRAM LEARNING OUTCOMES

- » Demonstrate a comprehensive understanding of environmental science, including principles of ecology, geology, hydrology, and soil science.
 - » Apply advanced skills and techniques for the monitoring, assessment, and management of land and water resources, including the use of GIS and other geospatial tools.
 - » Evaluate the environmental impacts of various land use practices, and develop strategies to mitigate negative impacts and promote sustainable land management.
 - » Analyze and evaluate the regulatory and policy frameworks governing land and water management, and develop strategies to navigate complex legal and regulatory environments.
 - » Design and implement environmental management plans, in collaboration with stakeholders, that promote sustainable land and water use practices.
 - » Apply techniques for land reclamation and restoration, including soil remediation, erosion control, and habitat restoration.
 - » Evaluate the economic and social implications of different land and water use practices, and develop strategies to optimize sustainable and equitable land use.
 - » Apply advanced techniques for water management, including water conservation, water quality monitoring, and water treatment.
 - » Evaluate the impact of climate change on land and water resources, and develop adaptation strategies to mitigate risks and promote resilience.
 - » Communicate effectively with diverse stakeholders, including landowners, policymakers, community members, and industry professionals, about land and water management issues and solutions.
 - » Apply principles of environmental ethics and sustainability to their work in land and water management
- For a full list of program learning outcomes, visit, assiniboine.net/landandwater



Campus/Delivery Options
Victoria Avenue East campus



Available Intakes
September



Work Integrated Learning
YR 1 | 16 weeks

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

- ✓ Managing land and water resources, and ensuring their long-term sustainability
- ✓ Appreciate working outdoors in a variety of terrains and regions
- ✓ Learning how to incorporate sustainable land and water management practices across a variety of landscapes
- ✓ Collecting, organizing, and analyzing data to solve problems
- ✓ Interpreting and applying various acts, regulations, policies, and procedures
- ✓ Potential to work in a variety of urban and rural communities and different ecological settings

EXPECTATIONS

Program & Industry

- » Be able and willing to travel
- » Possess a valid driver's licence and access to a vehicle
- » Work in outdoor settings in varied terrain
- » Ability to quickly problem solve and deal with stakeholder conflicts and complaints in a professional manner
- » Have physical strength and stamina as well as the mobility and motor skills to undertake the required tasks
- » Operate equipment as required

CAREER OPPORTUNITIES

Compliance (conservation) • land use planning • water quality and quantity management • environmental consulting • wildlife management • environmental health and safety • watershed districts

ADMISSION REQUIREMENTS

- » A complete Manitoba Grade 12 or equivalent
- » English 40G/40S or equivalent
- » Pre-calculus or Applied Mathematics 40S or equivalent

Applicants who have Mathematics 40G, Mathematics 301 or Consumer/Essential Mathematics 40S will be required to write a mathematics assessment test to assess their eligibility for admission.

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

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

