



**RUSS EDWARDS  
SCHOOL**  
Agriculture & Environment

Eligible for  
**FINANCIAL AID  
& AWARDS**

# ENVIRONMENTAL RESOURCE MANAGEMENT

**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 challenges.

## 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/enviroresource](http://assiniboine.net/enviroresource).



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



**Available Intakes**  
September



**Industry Work Experience**  
16 weeks