

LAND AND WATER MANAGEMENT

**2-YEAR
DIPLOMA**

Ready for a progressive career in natural resource management? Be part of the solution on how we manage our essential land and water resources.

Why should you choose Land and Water Management?

- 1 Adventure awaits you**
 Passion for the outdoors makes you a great candidate for a career in natural resources. This exciting program brings together natural resources, technology and the environment in an agricultural context. Understand the interconnection between our water and the land. Learn how to protect, manage, sustain and conserve natural habitats for wildlife and humans.
- 2 Enjoy a holistic approach to learning**
 With Land and Water Management, you will often be out in the field, examining key features of the prairie agro-ecological landscape. Become skilled at monitoring and evaluating the quality of rural land and water resources, and at managing activities so that those resources are used sustainably. You will use environmental monitoring equipment to study water, land and air conditions.
- 3 Your options are endless**
 Consider a career as a water manager, habitat specialist or environmental technician. You may also find a position in research, management, consulting and administration of sustainable land use practices. If you like working with science and are concerned about the environment and the quality of our natural resources, Land and Water Management is perfect for you!
- 4 Have diverse career opportunities**
 Your career can take you to both rural and urban settings. The program's four-month paid co-operative work experience will help you with real-world experience, create connections within industry and become confident in your abilities. Once you graduate, you will find yourself ready for exciting and challenging roles in industry including conservation districts, agricultural organizations and all levels of government across the Prairies and beyond.

FULL-TIME, ON-CAMPUS TIMELINE:



Program delivery options:



Victoria Avenue East Campus

CAREER OPPORTUNITIES

Your job can take you to a rural area or an urban centre. Graduates are in demand for exciting and challenging careers in industry, conservation districts, agricultural organizations and all levels of government and industry across the prairies and beyond. Willingness to relocate will increase your job opportunities. Opportunities in the area of research, management, consulting and administration of sustainable land use practices exist for qualified individuals with an understanding of water, land and environmental management issues.

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.

Applicants please note: A valid driver's licence and access to a vehicle is strongly recommended given the potential need for travel to rural areas for Co-op Work Placement - LWMGT.

English is the language of instruction at Assiniboine. All applicants educated outside of Canada or in a country not on the test exempt list are expected to meet the English language proficiency requirement. See assiniboine.net/elp for more information.

UNIQUE LEARNING EXPERIENCES

- Co-operative work placement between year one and two
- Emphasis on field project-based learning
- Interesting and informative tours and networking with industry

GRADUATION REQUIREMENTS

To graduate with an Environmental Technologies - Land and Water Management Specialization diploma, students must successfully complete 120 academic credits and 15 practical credits.

The minimum passing grade for each course is indicated on the course outline.

CONNECTIONS

Assiniboine has a number of agreements with other colleges, universities and professional organizations, making it possible for students to apply credit taken at Assiniboine to programs at other institutions. For up-to-date information on agreements, visit assiniboine.net/registrar or the program page.

PROGRAM FEES (DOMESTIC ONLY)

Tuition, fees and Students' Association fees total approximately **\$5,230** for year one and **\$4,720** for year two.

Estimated costs for books and supplies are **\$1,530** for year one and **\$580** for year two.

All fees are estimated and subject to change without notice.

COURSES 2020-21

| NUMBER | COURSE TITLE | CREDITS |
|-----------------|--------------------------------|---------|
| YEAR ONE | | |
| HLTH-0030 | 1st Aid - Emergency | 0 |
| AGRC-0162 | Agro-Ecology Field Laboratory | 6 |
| ENVR-0044 | Aquatic Ecosystems | 6 |
| COMP-0571 | Communications and Technology | 6 |
| COOP-0021 | Co-op Work Placement - LWMGT | 15 |
| GEOS-0022 | GIS Applications | 6 |
| COMP-0572 | Natural Resources Technology | 6 |
| SCIE-0038 | Plant Physiology and Taxonomy | 6 |
| PEDV-0313 | Professional Development | 6 |
| ENVR-0037 | Soils and Water | 6 |
| MATH-0072 | Statistics for Life Sciences | 6 |
| AGRC-0291 | Terrestrial Ecosystems | 6 |
| YEAR TWO | | |
| SCIE-0039 | Ecology | 6 |
| ENVR-0019 | Environmental Capstone | 6 |
| ENVR-0045 | Environmental Chemistry | 6 |
| ENVR-0042 | Environmental Legislation | 6 |
| ENVR-0041 | Environmental Management | 6 |
| ENVR-0046 | Environmental Topics | 6 |
| ENVR-0039 | Fisheries/Wildlife Management | 6 |
| AGRC-0292 | Natural Resources Field Lab | 6 |
| ENVR-0036 | Reclamation and Remediation | 6 |
| ENVR-0040 | Socio-Environmental Management | 6 |

Note: Timelines, applicable industry experience, and teaching methodology will depend on program delivery choice; program information sheets subject to change without notice. Visit assiniboine.net for the most up-to-date information.

NEXT STEPS

Apply now! Visit assiniboine.net/applynow. For more information on this program, visit assiniboine.net/landandwater.