

# GEOGRAPHIC INFORMATION SYSTEMS

**8-MONTH  
ADVANCED  
DIPLOMA**

Use the most modern GIS technologies to solve problems across a range of disciplines. Apply your prior education to work in agriculture, forestry, environmental management or natural resources.

## Why choose the Geographic Information Systems advanced diploma?

- 1 Pinpoint your career**  
From Google to governments and marketing to mineral exploration, geographic information systems are used across a variety of industries. No matter what industry you are currently in, this advanced diploma gives you the opportunity to launch a new career or add a new marketable skill to your résumé. Build on your existing post-secondary education and learn cutting-edge environmental technologies.
- 2 Solve problems in the real world**  
Learn current GIS technologies and how to use them to solve real-world problems. You will use geographic information systems (GIS), remote sensing and global positioning systems (GPS), and drone technology to detail minute variations in land, water, vegetation and nutrient conditions.
- 3 Modern equipment and software**  
Experience with modern equipment and software will make you a hot commodity in resource-based industries. Learn to analyze data, find and incorporate related information, and then translate it into practical management decisions that can be applied in any number of industries.
- 4 Take your pick**  
Your career can take you almost anywhere: government, private industry and community organizations. There is tremendous opportunity for you in agriculture, forestry, watershed and environmental management, land use planning, natural resources and transportation.

### CAMPUS/DELIVERY OPTIONS



Victoria Avenue East Campus

### AVAILABLE INTAKES



September

### WORK PLACEMENT(S)



N/A

## CAREER OPPORTUNITIES

Aimed at university and college graduates who wish to add GIS knowledge to their skillset, this advanced diploma prepares you for a wide variety of occupations and fields, such as:

- » Land planning and resource management organizations
- » Conservation districts
- » Government organizations
- » Agribusinesses
- » Consulting practices

## ADMISSION REQUIREMENTS

- » Two-year diploma or university degree

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](http://assiniboine.net/elp) for more information.

## TECHNOLOGY REQUIREMENTS

Programs at Assiniboine have certain technology requirements. Students require access to computer devices at home and may be required to bring these on campus when instructed. Refer to [assiniboine.net/tech](http://assiniboine.net/tech) for more detailed information about the requirements for this program.

## UNIQUE LEARNING EXPERIENCES

- » Emphasis on practical, applied learning
- » Tours and field laboratories
- » Laboratories with high-tech equipment

## GRADUATION REQUIREMENTS

To graduate with a Geographic Information Systems advanced diploma, students must successfully complete 60 credits.

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

## PROGRAM FEES (DOMESTIC ONLY)

Tuition: **\$3,090** Course fees: **\$1,770**  
Students' Association fees: **\$440**  
Estimated textbooks, tools and supplies: **\$540**

*All fees are estimated and subject to change without notice. For international program pricing, if/when applicable, please visit [assiniboine.net](http://assiniboine.net).*

## COURSES 2022-23

NUMBER	COURSE TITLE	CREDITS
GEOS-0017	Advanced Spatial Analysis	6
GEOS-0018	Cartography	6
GEOS-0019	Geomatics Applications	6
GEOS-0026	GIS Analysis	6
GEOS-0021	GIS Database Management	6
GEOS-0024	GIS Project Management	6
GEOS-0020	GIS Server	6
GEOS-0023	GPS Applications	6
GEOS-0016	Programming for GIS	6
GEOS-0025	Remote Sensing / Image Analysis	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](http://assiniboine.net) for the most up-to-date information.*

## NEXT STEPS

Apply now! Visit [assiniboine.net/applynow](http://assiniboine.net/applynow).  
For more information on this program, visit [assiniboine.net/gis](http://assiniboine.net/gis).