



THE UNIVERSITY OF WINNIPEG

For more information visit www.uwinnipeg.ca or contact a student recruitment officer at welcome@uwinnipeg.ca or 204.786.9844. In any case where The University of Winnipeg Course Calendar and this fact sheet differ, the current Calendar takes precedence.

Geographic Information Systems 2012 - 2013

A GIS is an information system that integrates, stores, edits, analyses, shares, and displays geographic information. GIS software is being increasingly used for many applications, largely because it provides users with powerful tools to query data, analyze spatial information, edit data, and create maps.

The University of Winnipeg and Red River College have strengthened their relationship in the area of Geographic Information Systems (GIS), with a joint program of study whereby students are required to take courses at both The University of Winnipeg and Red River College. The program is intended to integrate a 4-year University of Winnipeg BA or BSC in Geography with the 1-year Red River College Advanced Diploma in Geographic Information Systems, effectively compressing five years of study into four years. The program has been specifically designed to prepare students for careers in industry where practical and theoretical skills are necessary. Students are normally enrolled at The University of Winnipeg in years one, two, and four and at Red River College for year three. Students who successfully complete the entire program will receive a 4-Year BA or BSC parchment from The University of Winnipeg and an Advanced Diploma from Red River College.

SAMPLE CAREERS

There is strong market demand for GIS-literate graduates in Manitoba, who can find challenging careers in a wide variety of disciplines including natural resources, infrastructure, health, the environment, emergency preparedness, defense, and business geographics.

SAMPLE UNIVERSITY OF WINNIPEG COURSES

Remote Sensing is a second-year course that introduces students to the methods of collecting, processing, and analyzing remotely-collected data, principally from satellites.

Computer Mapping is a second-year course that provides an introduction to the theory and methods of making high-quality maps with computers.

Principles of Geographic Information Systems is a third-year course that provides a systematic overview of GIS methodology, covering the essential principles of data acquisition, input, storage, manipulation, and output. This course should be taken before entering the RRC Diploma Program.

SAMPLE RED RIVER COURSES

Statistics for GIS provides students with advanced statistical skills in a GIS environment.

Project Management Fundamentals teaches students the skills they need to manage complex GIS projects, with emphasis on skills needed in the workplace.

Thesis Project requires students to design and implement an advanced real-world GIS-based thesis project.

GIS Modeling teaches students how to model complex systems and solve complex problems with a GIS.

REQUIRED HIGH SCHOOL COURSES

Students must meet the entrance requirements for admission to The University of Winnipeg.

HOW TO APPLY – Domestic Student

Apply online at uwinnipeg.ca or pick up an Application for Admission from your high school counsellor's office or the Admissions Office at The University of Winnipeg. To meet Scholarship deadline submit your application and \$80 application fee.

HOW TO APPLY – International Student

Apply online at uwinnipeg.ca/index/intl-apply and submit all official documents by mail. To meet Scholarship deadline submit application, fee, and documents by March 1st. International application fee is \$100, which includes a one-time courier fee.

CONTACT US

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