Master of Data Science: MDS

The need for qualified, well-trained data science professionals spans virtually every industry. The Master of Data Science program prepares students for careers in data science by providing a diverse and comprehensive understanding of core data science skills through an ethical lens with a focus on spatial-temporal data.

uoguelph.ca/programs/master-of-data-science/

PROGRAM

The Master of Data Science may be completed on a full- or part-time basis, allowing students greater flexibility during their degree. Students are expected to complete the program in three to six semesters.

In keeping with market demand, the program offers a unique emphasis on spatial-temporal data to support analysis of industry data over time and across geographic regions.

GEOSPATIAL ANALYSIS FIELD

Within the MDS program, we also offer a specialization in the field of Geospatial Analysis for students focussing on spatial analysis and modelling.

ENGAGED LEARNING

Students will build their skills in data science through learning from U of G's experts in statistical learning, machine learning, artificial intelligence, big data, data science ethics, and more.

You will demonstrate learning via written assignments, oral presentations, case studies, applied course projects and group work.

You will have the opportunity to develop a portfolio of your work, a valuable showcase in demand by employers.

INDUSTRY PARTNERS

- Linamar
- Cooperators
- Gartner, Inc.
- Tiger Analytics
- Shoppers Drug Mart
- Loblaw Companies Limited
- Government of Canada
- Mentatian
- Caliber Insights
- CIBC
- Sun Life

ADMISSION REQUIREMENTS

Honour's Bachelor's degree or equivalent from an accredited institution with a minimum average of 75% (B) in the last four semesters of study with:

- A major or minor in data science, computer science, mathematics, statistics, or a related field; or
- Working knowledge of statistics and computer programming, demonstrated through completion of university or college level degree credit courses equivalent to the following U of G courses: STAT*3240 and CIS*2500.

We are a Vector Institute-recognized master's program. Students entering the Master of Data Science program may consider the Vector Scholarships in Artificial Intelligence, valued at $17,500 each. Find more information on the Vector Institute website:

vectorinstitute.ai/programs/scholarship/

Application Period

See website for application dates

Entry: Fall (No Winter entry for this program)

ARE YOU INTERESTED IN:

- Data science
- Big data
- Data ethics
- Artificial intelligence
- Optimization
- Data manipulation
- Statistics
- Spatial-temporal Modelling and Analysis
- GIS/Remote Sensing

CAREER OPPORTUNITIES:

- Data and reporting analyst
- Business intelligence developer
- Business data engineer
- Data scientist
- Machine learning researcher
- Software engineer
- Statistician
- GIS Data Technologist
- GIS Programmer

CONTACT INFORMATION

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UNIVERSITY OF GUELPH