



FACULTY OF SCIENCE

# STATISTICS: DATA SCIENCE

---

**Data scientists analyze, interpret, and model data using statistics, math, and computer science. They also interpret the results to predict future trends and propose action plans.**

---

By popular demand, the Department of Mathematics and Statistics now offers **BSc 4-year** and **BA 4-year** degrees in Statistics (Data Science Stream). This stream involves a combination of statistics, mathematics and applied computer science courses. Learn more about this exciting new program here: [Data Science Program | Mathematics and Statistics | The University of Winnipeg \(uwinnipeg.ca\)](#)

In today's market, a data scientist position is the hottest job and qualified candidates are in high demand in private and public sectors. Careercast.com ranked "Data Scientist" as the best career in 2019. (They rank jobs according to four core criteria: environment, income, outlook and stress.)

In the program at UWinnipeg, students acquire the essential skills and \_\_\_\_\_ and strategic planning of an organization.

---

## SAMPLE CAREERS

Data scientists are in high demand, earn high salaries, and have satisfying careers. A wide range of career options exist in medicine, business, government, public health, and marketing.

Graduates apply their expertise in data science to biostatistics, medicine, government, Cancer Care, agricultural research, health care research, quality control, and actuarial work. They work with specialists such as economists, biologists, chemists, and doctors to assist in the design of experiments and sampling plans, and the analysis of research data. Most data scientists find employment with private corporations or government departments and agencies. Statistics Canada representatives visit our campus regularly looking for

**Statistics for Epidemiology** focuses on the design and statistical analysis of data typically gathered from epidemiological studies. Epidemiologists are concerned with identifying risk factors for diseases. In practice, epidemiological data presents statistical challenges