Expanding Your Data Horizons

Data literacy is becoming a vital skill in the workplace, and many employers favour job applicants with competencies in data analysis. The Graduate Diploma in Social Statistics and Data Analysis (SSDA) offers an opportunity for current Carleton graduate students and interested professionals to develop proficiencies in quantitative research methods and statistical analysis. The SSDA Graduate Diploma focuses on real-world data and statistical problems, providing graduates with practical and marketable skills...and a competitive edge!

Did You Know?

Data skills learned in the SSDA Graduate Diploma will qualify you to work as a data analyst.

Data analysts are in high demand in many industries, including government, education, health care, market research, and more.

For more information

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Carleton University

Graduate Diploma in Social Statistics and Data Analysis

Ottawa, Canada
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Carleton University

Graduate Diploma in Social Statistics and Data Analysis

First in Canada

The SSDA Graduate Diploma will provide students with an opportunity to gain experience and engage in all aspects of the quantitative research process, from design to data collection and analysis. Students will acquire the core skills in research methodologies and statistical methods needed to actively participate in various research projects in the workplace or to secure a job requiring formal education and training in social statistics and data analysis.

One Diploma, Two Options

There are two ways to be admitted to the SSDA Graduate Diploma. Current master's or doctoral students at Carleton apply to the Type 2 diploma option. The Type 3 option is for those who are not currently enrolled at Carleton. This option allows those individuals who may not be able to commit to a graduate degree to obtain a graduate-level diploma and allow them to learn on a part-time basis.

Program Focus

Many important and contemporary issues will be explored in the SSDA Graduate Diploma. Students will be taught an array of topics ranging from social survey research design to sampling theory and advanced statistical modelling and computing.

The diploma is geared to a social science audience with an interest in practical and real-life statistical problems, data management and analysis, and communication of research results. It may be most appealing to students and professionals in areas where social survey and related research methods are widely used, such as economics, public policy, administration, or behavioural and health sciences. Given the wide application of statistics and quantitative data analysis, the SSDA Graduate Diploma is suitable and open to individuals in any field of study.

Course Outline

Students in the SSDA Graduate Diploma will complete four one-semester courses over a one-to-two-year period of time:

- Logic of the Research Process
- Multiple Regression Analysis
- Advanced Multivariate Analysis
- One elective course in an area related to quantitative research methods

Benefits of the National Capital Region

The National Capital Region is a major hub for social science data collection and analysis and home to Statistics Canada. The competencies gained in the SSDA Graduate Diploma will provide a competitive advantage to graduates in gaining employment in areas where quantitative research methods and statistics are used or required, especially in government and non-government organizations.

"Hands-on" Experience

The SSDA Graduate Diploma will help develop practical skills through various mechanisms. Students will be taught intermediate to advanced statistics and how to apply them to large datasets using a variety of general and specialized statistical software. Students will also learn how to effectively communicate statistical concepts, methods, and results in written and spoken forms to scientific and non-scientific communities. The training and skills learned in the diploma may be useful to those engaged in quantitative research and/or looking for relevant employment opportunities after graduation.

Career Paths

Graduates of the SSDA Diploma will acquire many of the sought-after skills in statistical analysis, critical thinking, and problem-solving that appeal to public and non-profit sectors and organizations, which employ a significant number of quantitative social scientists such as Employment and Social Development, Health, Justice, Statistics, and Transport Canada.