# **DATA ANALYTICS (DAGC)**

#### Advance your career with the power of data.

This graduate certificate program empowers professionals to elevate their analytical skills and confidently lead data-informed decision-making in any industry. Build on your creative problem-solving abilities with this program that combines computer science and technology courses with databases, research methods, marketing, and communications studies.

You'll learn to pull meaningful insights from large, complex data sets that organizations need to predict trends and make informed decisions. As a data storyteller, you'll learn to simplify complex data, ensuring that decision-makers can grasp the insights without getting lost in technical details. Your ability to present data in a clear and concise manner will add tremendous value to the decision-making process.

Designed with working professionals in mind, the program offers maximum flexibility. You can study full-time or part-time, in person or fully online—whatever suits your schedule and lifestyle. Whether you're in the office, at home, or on the go, you can build the skills you need to thrive in a data-centric world.

## **Program highlights**

- Flexible learning options allow you to study full- or part-time, in person or completely online – whatever fits your schedule
- Seven-week capstone project or placement in the final semester to make you connected with industry partners
- Co-curricular activities, field trips, and guest speakers offer networking opportunities
- Build skills in a wide array of tools including advanced ArcGIS, Power BI, Tableau and Python programming, R statistics, SQL database, and Microsoft Office and Excel

#### Program of study for the 2026-27 Academic Year

	Total Credits	42
	Credits	6
or ANA 7306	or Placement	
ANA 7305	Analytics Capstone	6
Semester 3		
	Credits	18
QMM 7311	Advanced Stats for Analytics	3
MKT 7300	Data Mining and Mkt Analytics	3
BTA 7300	Connected Data	3
ANA 7311	Storytelling with Data	3
ANA 7304	Dashboards and Data Modelling	3
AIE 7301	Machine Learning Foundations	3
Semester 2		
	Credits	18
QMM 7310	Statistics for Data Analytics	3
DBA 7310	Structured Data Management	3
ANA 7312	GIS and Data Visualization	3
ANA 7310	Programming for Analytics	3
ANA 7303	Data Collection and Ethics	3
ANA 7302	Foundations of Data Analytics	3
Semester 1		Credits

#### **Admission requirements**

Applicants must be graduates of a diploma, advanced diploma, or degree program from an Ontario College or equivalent.

OR

Applicant must possess five years of work experience in a related field (or combination of education and work experience) as judged by the College to be equivalent. Applicants must submit a resume detailing their related experience and a cover letter outlining their competencies and preparedness for the program (any and all postsecondary transcripts must still be submitted).

## Additional admissions requirement

#### Recommendations

- · Proficiency in Microsoft Excel
- · Any grade 12 mathematics (C) or (U) (MCT4C is highly recommended)
  - Students who do not possess the foundational math will need to take the bridging course(s) prior to registration. Please contact the program coordinator to discuss upgrading options.

#### **Program Delivery**

2026-27 Fall term start

SEMESTER 1: Fall 2026 SEMESTER 2: Winter 2027 SEMESTER 3: Spring 2027

#### Winter term start

SEMESTER 1: Winter 2027 SEMESTER 2: Spring 2027 SEMESTER 3: Fall 2027

#### Specific program pathways

#### College or university degree opportunities

If you are a graduate from this program, you may continue your studies at a college or university and you may receive credit(s) for your prior college education. Refer to Cambrian's college and university agreemen (https://cambriancollege.ca/supports-services/articulation-agreements/universities-in-canada/)t (https://cambriancollege.ca/supports-services/articulation-agreements/) details for further information.

## **Employment opportunities**

Business analysts and data analytics professionals may work independently or with various teams, collecting and mining data from primary and secondary sources, analyzing and interpreting results, pinpointing and predicting trends, providing concise reports, and designing, creating, and maintaining databases.

They work for a wide range of industries, including technology, business, government, healthcare, applied research, public safety, human resources, sales, and marketing.

Graduates are prepared for employment opportunities as:

- · Data or business analysts
- · Database administrators
- · Project managers
- · Software developers
- · Implementation coordinators

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- Data scientists
- · Business intelligence consultants
- Decision support specialists
- Data miners
- Data storytellers

## **Contacts**

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