HEALTH ANALYTICS (HAGC)

Analyze your community's health with population data in this high-demand career

The emerging field of health analytics extracts valuable insights from population data using statistical analysis and data management techniques to understand the health of your community and proactively plan for its future health care needs.

With a focus on evidence-based decision-making, you'll develop expertise in programming, statistics, and data visualization. You'll gain the skills to collect, organize, and analyze complex datasets, identifying patterns and trends. Through critical thinking and problem-solving exercises, networking, and industry speakers, you'll be equipped to work as a member of an interdisciplinary health analytics team and earn a rewarding career bridging data analysis and health care outcomes.

Program highlights

- Online (HyFlex) delivery lets you study full-time or part-time with the option to attend classes on campus, online, or a combination of both
- Capstone project in the final semester
- Tools include ArcGIS, Microsoft Office and Excel, Power BI, Python programming, R statistics, and SQL database
- Networking opportunities through workshops, community engagements, co-curricular activities, and guest speakers

Program of study for 2025-26 Academic Year

Semester 1

		Credits
ANA 7302	Foundations of Data Analytics	3
HEA 1031	Canadian Health System - Ethical, Legislation, and Regulatory Considerations	3
ANA 7310 Programming for Analytics		3
ANA 7312 GIS and Data Visualization		3
DBA 7310 Structured Data Management		3
QMM 7310 Statistics for Data Analytics		3
	Credits	**18**

Semester 2

ANA 7311	Storytelling with Data	3
HEA 1032	Health Data Acquisition & Management	3
HEA 1035	Data Mining for Health Analyst	3
HEA 1041	Applications of Health Data	3
HEA 1044	Introduction to Epidemiology	3
QMM 7311 Advanced Stats for Analytics		3
	Credits	**18**

Semester 3

ANA 7305	Analytics Capstone	6
	Credits	**6**
	Total Credits	**42**

Note:

Part-time students will be provided with a pathway to complete this program on a part-time basis.

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 post-secondary transcripts must still be submitted).

Additional admission requirements

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

2025-2026

There are currently no intakes scheduled at this time.

Specific program pathways

College or university degree opportunities

If you are a graduate of 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 agreement (https://cambriancollege.ca/supports-services/articulation-agreements/universities-in-canada/) details for further information.

Employment opportunities

Graduates may work as data analysts, clinical analysts, project managers, software developers, privacy officers, implementation coordinators, data scientists, business intelligence consultants, decision support specialists, and consultants in IT departments in hospitals, medical software companies, research or educational institutions and health informatics clinics.

Contacts

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INTERNATIONAL ADMISSIONS

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