

CRIME ANALYTICS (CAGC)

Ontario College Graduate Certificate | 3 semesters | Barrydowne

This program will build upon a college diploma, university degree, or complement the training provided by police services to individuals who are currently serving, or who aspire to launch a career in the emerging field of crime analysis. You will develop an understanding of data storage, analysis, programming, statistics, communication, and foundations of data management within the context of policing. You will gain the skills to extract meaningful insights from large and complex data sets to support evidence based decision-making using a wide range of data and technologies. You will test and apply your knowledge through exercises focusing on critical thinking and problem-solving skills and learn to work as a member of a police major case management team.

In the program, you will gain the skills to extract meaningful insights from very large and complex data sets to support organizational decision-making. You will learn how to collect, curate, manipulate, encode, and store data sets so they can be analyzed and mined and reused or repurposed to solve challenges and predict trends. The program combines crime analytics focused courses with computer science and technology, research, and communications courses. This enables students to find or gather data, use a wide variety of tools to analyze it, and share results through various forms of communication from reports to dashboards and infographics.

In this program, students will develop an understanding of policing, intelligence, police data management, dashboards, spatial analysis, programming, statistics, within the context of the emerging field of crime analytics. The knowledge gained will be tested and applied through exercises focusing on critical thinking and problem-solving skills. Students will learn to work as a member of an interdisciplinary analytics team. This enables students to gather data, use a wide variety of tools to analyze it, and share results through various forms of communication ranging from reports to dashboards and infographics.

Program Strengths

- This program leverages and builds on existing experience and creativity in problem-solving enabling students to become strong, effective analysts who are skilled at bridging the gap between data, industry, and technology.
- Students are exposed to a variety of theory, hands-on, applied, and experiential learning opportunities that prepare them to meet the needs of current job markets.
- A variety of workshops, community engagements, co-curricular activities, field trips, and guest speakers provide students with opportunities to begin networking and collaborating in the analytics and related fields.

Program Highlights

- 1 year - 3 semesters (2 academic semesters and 1 semester of Work Integrated Learning)
- Capstone project in final semester (7 week capstone course)
- HyFlex learning model utilized throughout the entire program
- Focus on analysis utilizing a wide array of tools including advanced ArcGIS, Microsoft Office and Excel, PowerBI, Python programming, R statistics, and SQL database to provide a versatile and in-demand analytical skill-set

- Extra-curricular and additional credential opportunities to enhance your analytical skills, portfolio, and resume

Part-time Pathway

Students may choose to complete this program in five semesters while studying part-time. For more information on the part-time pathway see Program Delivery tab.

Quick Links

How to Apply (<http://cambriancollege.ca/apply/>)

Law and Justice (<http://cambriancollege.ca/field-of-study/law-and-justice/>)

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 Requirements

- 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.

Applicants whose first language is not English, must provide proof of English language proficiency. Cambrian College accepts the TOEFL, or IELTS, or equivalent test to satisfy our English admission requirements.

Highly Recommended:

- Proficiency in Microsoft Excel

APPLY NOW! (<https://www.ontariocolleges.ca/en/apply-now/>)

Program Delivery

2022-2023

This program will be delivered in the following terms:

Fall Term Start

1. SEMESTER 1 Fall 2022
2. SEMESTER 2 Winter 2023
3. SEMESTER 3 Spring 2023

Part-Time Delivery

Applicants wishing to study part-time will apply to CAPT at OCAS. Timelines for completion will extend beyond those indicated above.

For specific term start/end dates and other key dates/deadlines, please see the Academic Schedule (<http://cambriancollege.ca/apply/how-to-apply/academic-schedule/>) on our website.

Program of Study for 2022-23 Academic Year

Semester 1		Credits
CRI 1001	Intro to Crime and Intel Analy	3
DBA 1000	Database Mgmt & Warehousing	4
EXL 1002	Dashboards and Data Analysis	3
QMM 1001	Statistics for Data Analytics	4
ANA 1000	Foundations of Data Analytics	3
ANA 1001	Programming for Analytics	4
Credits		21
Semester 2		Credits
CRI 1003	Intel Theories and Application	3
CRI 1005	Appr. to the Study of Terroris	3
CRI 1007	Professional Values and Ethics	3
BTA 1013	Communicating with Data	3
QMM 1002	Stats and Data Visualization	4
CRI 1100	Anatomy of Major Case Investigation	2
FIN 1025	Financial Crime Risk Assessment	2
GIS 1025	GIS Mapping	2
Credits		22
Semester 3		Credits
ANA 1010	Analytics Capstone	6
Credits		6
Total Credits		49

- Security Analyst
- Forensic Data Analyst
- Financial Analyst

College/University Degree Opportunities

Graduates from this program may continue their studies at college/university and may receive credit for their prior College education.

Refer to College/University Agreements (<http://www.cambriancollege.ca/agreements/>) for further information.

Contacts

Sidney Shapiro
Program Coordinator
705-566-8101, ext 7909
sidney.shapiro@cambriancollege.ca

INTERNATIONAL ADMISSION

mailboxadmissions@cambriancollege.ca

Fees

Tuition and Ancillary Fees

Please see our fees page (<http://cambriancollege.ca/fees/>) for the breakdown of tuition and mandatory ancillary fees by program and semester for both domestic and international students.

Books & Supplies

The total cost of books in the program is approximately \$500. This is the best information available at the time of publishing to the website and is subject to change.

Graduate Options

Employment Opportunities

Crime analysts work for a variety of law enforcement, intelligence, research, government, and a variety of other organizations. Crime analysts also work with the financial sector in areas such as private investigation, insurance investigation and fraud investigation. Common tasks involve analyzing intelligence, predictive modeling, mining data from primary and secondary sources, analyzing and interpreting results, pinpointing and predicting trends, providing concise reports, and designing, creating and maintaining databases.

Graduates are prepared for employment opportunities as:

- Crime Analyst
- Data Analyst
- Fraud Analyst
- Compliance Analyst
- Intelligence Analyst