

AVIATION MANAGEMENT

Program: AVIA

Credential: Ontario College Advanced Diploma, Co-op

Delivery: Full-time

Work Integrated Learning: 3 Co-op Work Terms

Length: 6 Semesters, plus 3 work terms

Duration: 3 Years

Effective: Fall 2023

Location: Barrie

Description

This program is designed to give students knowledge and hands-on experience in aviation and management, as well as provide co-operative work experience in the aviation industry. Aviation courses focus on aircraft, airline and airport operations, aviation safety and security and flight systems and navigation. Students gain a solid understanding of the aviation industry in Canada and around the world. Management courses are designed to give students an understanding of business and management practices of marketing, human resource management, communications and project management to be prepared for future promotional opportunities. Students are given the opportunity to pass the examination to receive their Restricted Aeronautical Radio Operation License.

Career Opportunities

Graduates of the program may obtain employment in general aviation and aviation operations positions where they use their knowledge and skills to progress to more advanced positions. Graduates may be employed in a wide variety of aviation fields such as airline management, airport management, airport planning, security and safety management operations, cargo operations, business aircraft operations, flight dispatch and government aviation agencies. In addition, the program provides graduates with a better chance of success in furthering their training with the Department of National Defense or to become air traffic controllers, commercial/airline pilots, and flight service specialists.

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

1. execute radio communications in accordance with Industry Canada guidelines and obtain a Restricted Radiotelephone Operators Certificate;
2. examine the Canadian and international aviation regulatory bodies and utilize Canadian aviation industry regulations;
3. utilize principles of management to operate and administer airport and airline operations in an effective and efficient manner;
4. apply accounting, finance and human resource principles to manage airport and airline operations;
5. apply the knowledge of modern aircraft technology, aerodynamics and meteorology to maintain safe operation of aircraft;
6. apply the knowledge of systems and procedures to move people and cargo with domestic and international air carriers and airports;

7. utilize risk management processes to identify and implement safety policies and procedures for airport, cargo and airline operations;
8. design and implement Safety and Emergency Management Systems (SMS) and Security Management Systems (SeMS) to meet regulatory requirements and for safe airport and airline operations;
9. describe the use and control of modern aircraft, Canadian airspace, navigation systems and navigation aids;
10. apply integrity and initiative to promote and maintain sustainable practices and to meet the ethical and environmental issues within the aviation industry;
11. apply current computer technology and use technical equipment specific to the aviation industry;
12. apply the basic skills in problem solving, decision making, oral and written communications and personal relations to function as base or operations manager;
13. analyze airport layouts from both design and operational perspectives.

Practical Experience

All co-operative education programs at Georgian contain mandatory work term experiences aligned with program learning outcomes. Co-op work terms are designed to integrate academic learning with work experience, supporting the development of industry specific competencies and employability skills.

Georgian College holds membership with, and endeavours to follow, the co-operative education guidelines set out by the Co-operative Education and Work Integrated Learning Canada (CEWIL) and Experiential and Work-Integrated Ontario (EWO) as supported by the Ministry of Colleges and Universities.

Co-op is facilitated as a supported, competitive job search process. Students are required to complete a Co-op and Career Preparation course scheduled prior to their first co-op work term. Students engage in an active co-op job search that includes applying to positions posted by Co-op Consultants, and personal networking. Co-op work terms are scheduled according to a formal sequence that alternates academic and co-op semesters as shown in the program progression below.

Programs may have additional requirements such as a valid driver's license, strong communication skills, industry specific certifications, and ability to travel. Under exceptional circumstances, a student may be unable to complete the program progression as shown below. Please refer to Georgian College Academic Regulations for details.

International co-op work terms are supported and encouraged, when aligned with program requirements.

Further information on co-op services can be found at www.GeorgianCollege.ca/co-op (<https://www.georgiancollege.ca/co-op/>)

Program Progression

The following reflects the planned progression for full-time offerings of the program.

Fall Intake

- **Sem 1:** Fall 2023
- **Sem 2:** Winter 2024
- **Work Term 1:** Summer 2024
- **Sem 3:** Fall 2024
- **Work Term 2:** Winter 2025
- **Sem 4:** Summer 2025
- **Work Term 3:** Fall 2025
- **Sem 5:** Winter 2026
- **Sem 6:** Summer 2026

Articulation

A number of articulation agreements have been negotiated with universities and other institutions across Canada, North America and internationally. These agreements are assessed, revised and updated on a regular basis. Please contact the program co-ordinator for specific details if you are interested in pursuing such an option. Additional information can be found on our website at <https://www.georgiancollege.ca/admissions/credit-transfer/> (<http://www.georgiancollege.ca/admissions/credit-transfer/>)

Admission Requirements

OSSD or equivalent with

- Grade 12 English (C or U)
- any Grade 11¹ or 12 Mathematics (C, M, or U)

¹ Minimum of 60% in Grade 11 College or University level Mathematics (MBF3C or MCF3M)

Mature students, non-secondary school applicants (19 years or older), and home school applicants may also be considered for admission. Eligibility may be met by applicants who have taken equivalent courses, upgrading, completed their GED, and equivalency testing. For complete details refer to: www.georgiancollege.ca/admissions/academic-regulations/ (<https://www.georgiancollege.ca/admissions/academic-regulations/>)

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may also be considered for admission; refer to the Credit for Prior Learning website for details: www.georgiancollege.ca/admissions/credit-transfer/ (<https://www.georgiancollege.ca/admissions/credit-transfer/>)

Additional Information

International and landed immigrant applicants to the Aviation Management program should be aware that the ability to obtain a valid Transport Canada security clearance may be a condition of employment (co-op or graduate) with some international airports and airlines in Canada.

Students who have resided or worked outside of Canada within the last five years may have difficulty meeting Transport Canada's information standards. Fortunately, the majority of co-op positions in Canada do not require students to obtain valid Transport Canada security clearance.

The foregoing is for your information only. Students should follow up with any prospective employer to determine their own candidacy.

Other Program Information

Past and concurrent flight training will be recognized and course exemptions will be considered based on previous education and work experience. Georgian College has made special arrangements with a local flight training facility for FLIGHT LAB at a reduced rate. These costs are over and above student tuition fees.

College scheduled field trips are a mandatory component of the Aviation Management program and must be attended by the student.

Graduation Requirements

- 32 Program Courses
- 3 Communications Courses
- 3 General Education Courses
- 3 Co-op Work Terms

Graduation Eligibility

To graduate from this program, the passing weighted average for promotion through each semester, from year to year, and to graduate is 60%. Additionally, a student must attain a minimum of 50% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester unless otherwise stated on the course outline.

Program Tracking

The following reflects the planned course sequence for full-time offerings of the Fall intake of the program. Where more than one intake is offered contact the program co-ordinator for the program tracking.

Semester 1		Hours
Program Courses		
AVIA 1000	Aviation Orientation	42
AVIA 1001	Aviation Operations	42
AVIA 1005	Flight Lab	10
COMP 2022	Computer Applications - Spreadsheets	42
BUSI 1001	Introduction to Organizational Behaviour	42
GOVT 1001	Government and Aviation	42
Communication Course		
Select 1 course from the communications list during registration		42
Hours		262
Semester 2		
Program Courses		
AVIA 1003	Airport Management	42
AVIA 3007	Airline Management	42
COMM 2020	Technical Communication	42
MATH 1002	Mathematics of Finance	42
MKTG 1000	Introduction to Marketing	42
General Education Course		
Select 1 course from the general education list during registration.		42
Hours		252
Semester 3		
Program Courses		
ACCT 1000	Financial Accounting Principles 1	42
AVIA 2000	Aircraft Characteristics	42
AVIA 3000	Air Cargo, Customs and Logistics	42
COMM 2021	Dynamic Presentations	42
ECON 1000	Microeconomics	42
General Education Course		

Select 1 course from the general education list during registration. 42

Hours 252

Semester 4

Program Courses

AVIA 2001	Advanced Flight Lab	10
AVIA 2002	Navigation and Navigation Aids	42
AVIA 2006	Introduction to Aerodynamics	42
AVIA 3004	Human Factors in Aviation Safety	42
COMP 1062	Database and Office Management	42
HURM 1000	Human Resources Management Foundations	42
METE 3000	Meteorology	42

Hours 262

Semester 5

Program Courses

AVIA 3001	Airport Planning	42
AVIA 3010	Safety and Emergency Management	42
ENTR 2007	Intrapreneurship	42
LAWS 2000	Business Law	42
MGMT 2001	Principles of Management	42
MGMT 2012	Introduction to Project Management	42

Hours 252

Semester 6

Program Courses

AVIA 3005	International Aviation and Management	42
AVIA 3009	Security Management Systems for Aviation (SeMS)	42
ECON 2000	Macroeconomics	42
ETHC 3002	Business Ethics	42
STAT 2000	Statistics 1	42

General Education Course

Select 1 course from the general education list during registration. 42

Hours 252

Total Hours 1532

Co-op Work Terms

Hours

COOP 1011	Aviation Work Term 1 (occurs after Semester 2)	560
COOP 2010	Aviation Work Term 2 (occurs after Semester 3)	560
COOP 3007	Aviation Work Term 3 (occurs after Semester 4)	560

Hours 1680

Total Hours 1680

Graduation Window

Students unable to adhere to the program duration of three years (as stated above) may take a maximum of six years to complete their credential. After this time, students must be re-admitted into the program, and follow the curriculum in place at the time of re-admission.

Disclaimer: *The information in this document is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs.*

Program outlines may be subject to change in response to emerging situations, in order to facilitate student achievement of the learning outcomes required for graduation. Components such as courses, progression, coop work terms, placements, internships and other requirements may be delivered differently than published.