



AVIATION

uwaterloo.ca/aviation

EARN your Commercial Pilot Licence and a bachelor's degree

LARGEST university professional pilot program in Canada

Launch a high-flying career

Do you dream of being a pilot? Take to the skies with the largest university-level professional pilot program in Canada. With the growing need for pilots globally and a positive job outlook for the next five years, aviation is a path to a high-flying career. You'll graduate with a bachelor's degree, a Commercial Pilot Licence, and a multi-engine instrument rating.

CHOOSE YOUR PROGRAM

At Waterloo, you have two options to study aviation. Both programs provide the same flight training and aviation courses.

GEOGRAPHY AND AVIATION

- › Bachelor of Environmental Studies (BES)
- › Learn to interpret weather patterns, identify land formations, read multi-layer maps
- › Add a specialization in Climate Change, Earth Systems Science, Geomatics, or Economy and Society

SCIENCE AND AVIATION

- › Bachelor of Science (BSc)
- › Get a strong science and technology base for careers in the aviation and aerospace industries
- › Choose a minor in Biology, Chemistry, Earth Sciences, or Physics



**UNIVERSITY OF
WATERLOO**

FIRST-CLASS FLIGHT

WATERLOO-WELLINGTON FLIGHT CENTRE

You'll take your flight training at the Waterloo-Wellington Flight Centre (WWFC), one of the top flight schools in Canada. Located at the Region of Waterloo International Airport (20 minutes from campus), WWFC operates a fleet of 30 aircraft, including Cessnas, Diamonds and twin-engine Piper Seminoles.

FLIGHT SCHOOL

Your pilot training includes ground school classes and one-on-one training with a WWFC flight instructor. You will fly multiple types of aircraft and simulators as you complete the Integrated Airline Transport Pilot Program.

FLIGHT MILESTONES

YEAR 1

- › First solo flight
- › Private Pilot Licence (PPL)
- › Radiotelephone Operator's Restricted Certificate

YEAR 2

- › Night Rating
- › Commercial Pilot Licence (CPL)

YEAR 3

- › Multi-engine rating
- › Instrument Rating (IFR)

YEAR 4

- › Multi-Crew Coordination
- › SAMRA and SARON Exams



Gain
**205+
HOURS**

of total flight time
by graduation

STUDY AND FLIGHT SEQUENCE

YEAR	TERM	STUDY/FLY
1	Fall	Study
	Winter	Study + Fly
	Spring	Fly
2	Fall	Study + Fly
	Winter	Study + Fly
	Spring	Fly
3	Fall	Study + Fly
	Winter	Study + Fly
	Spring	Fly
4	Fall	Study + Fly
	Winter	Study

Fall term: September to December; Winter term: January to April; Spring term: May to August

ACADEMIC COURSES

Course requirements vary by program and specialization

Sample aviation course topics:

Introduction to Aviation, Human Factors in Aviation, Aviation Safety, RPAS (UAV) Requirements for Geomatics

Sample science courses: Introductory Earth Sciences, Physical and Chemical Properties of Matter, Calculus 1 for the Sciences

Sample geography courses:

Human Geographies: People, Space and Change; Earth from Space Using Remote Sensing; Hydroclimatology; and Designing Effective Maps

ADMISSIONS

GEOGRAPHY AND AVIATION

Admissions average Low 80s

Required courses Grade 12 U English*
Grade 12 U Mathematics*

SCIENCE AND AVIATION

Admissions average Low 80s

Grade 12 U English*
Advanced Functions*
Required courses Calculus and Vectors*
2 of: Biology, Chemistry, Earth and Space Science, Mathematics of Data Management, Physics

* final grade of 70% or higher required

ADDITIONAL REQUIREMENTS:

- › attend a WWFC information session (register at wwfc.ca)
- › pass the Transport Canada Medical Category 1 exam
- › Permanent Residents and visa students must pass the Aviation Language Proficiency Test (ALPT). The medical exam must be completed prior to completing the ALPT.

TUITION AND FEES

2019 academic tuition fees were approximately \$3,600 per term for Canadian citizens and permanent residents, and \$17,650 per term for international students. In addition to tuition fees, flight training fees are approximately \$80,000 over the 3 years of flight training, and are paid directly to the WWFC.

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