



EXPERIENCE MAP

Aeronautics Leadership



**FUTURE FULL
OF PROMISE.**



University
of Windsor

EXPERIENCE.UWINDSOR.CA

Skills and Knowledge of Aeronautics Graduates

PROGRAM HIGHLIGHTS

Spread your wings and take advantage of the growing demand for pilots to serve as leaders in aviation and aerospace. Academic education is coupled with flight training, run by our industry partner, Journey Air, at the Windsor International Airport (YQG).

FUNCTIONAL KNOWLEDGE

- Confidently piloting both private and commercial aircraft
- Composing and editing clear, concise and technically correct written documents for specific audiences
- Understanding and explaining technical knowledge regarding air transportation
- Overcoming obstacles by utilising problem-solving skills
- Working effectively as part of a team through various leadership roles
- Effectively communicating ideas, arguments and evidence through clear, concise and coherent written work

Degree Title / Program	Minimum Average	Admission Requirements
AERONAUTICS	75%	ENG. required, one of CALC. VEC. ADV. FUNC or DATA M. and PHYS. at the Grade 11 level.



- Courses of study specific to each program
- Activities and experiences that complement coursework (Outstanding Scholars, peer mentoring, VIP)
- Activities falling outside of the scope of set curriculum (Part-time job, clubs, volunteering, athletics)

Build your Skills and Experience

Your UWindsor experience is more than attending classes. It is a combination of academics, co-curricular activities, and extracurricular involvement. By making the most of all three elements of your university experience, you will maximize your opportunities to build your skills, broaden your personal network, and clarify your long term academic and career goals.

Career Planning Guide

Intentional career planning will help you prepare for your next step after graduation. It is a fluid, dynamic, and continuous process, meaning you can move on or return to an earlier stage at any time. You can even work through simultaneous cycles, like one for your long-term dream job and another for a summer job.



Explore Opportunities Using This Guide

Explore a selection of opportunities recommended for students in your program. This chart shows some of your many options – you don’t have to do everything on it or limit yourself to it. Engage in opportunities from each of the three categories to set yourself up for success:

- **Academics**
 - *Your coursework*
- **Experience**
 - *Ways to get involved*
- **Career**
 - *Plan ahead for what’s next*

HIP

High-Impact Practice (HIP)

A HIP is an enriching educational experience that can be life-changing and often includes learning outside of the classroom while encouraging meaningful interaction and collaboration, such as:

- Co-op, internship or field experiences
- Research with faculty
- Culminating senior experience
- Capstone courses
- Service-learning
- Learning communities
- Study abroad

	First Year	Middle Years	Final Year
Academics	<ul style="list-style-type: none">• Take required courses including Effective Writing and Introduction to Psychology• Review degree course requirements for all years of study• Begin to discover balance between coursework and flight training• Meet with an academic advisor• Receive peer mentorship or academic advising and support from faculty coordinator	<ul style="list-style-type: none">• Take required courses and check in with academic advisor to make sure you are on the right path• Look into completing a research project in final year HIP• Take three courses from Business and four courses from Science, Engineering or Computer Science• Start taking courses required as pre-requisites for graduate or professional school• Seek out courses that offer field experience HIP• Consider declaring a minor and/or specialization	<ul style="list-style-type: none">• Meet with an academic advisor to go over degree requirements• Complete all required courses for your degree• Apply to graduate through MyUWindsor Portal• Work with a faculty member on a research project or publication HIP• Take the Mentorship and Learning course as a way of combining learning opportunities with student teaching HIP• Take a field work or practicum course to culminate your senior experience HIP
Experience	<ul style="list-style-type: none">• Apply for a co-curricular experience such as VIP HIP• Take Practicum in Professional Development (credit for flight training) HIP• Work toward and complete Private Pilot licensing requirements• Research student exchange opportunities for middle years HIP• Investigate research opportunities as part of the Outstanding Scholars program HIP• Join clubs such as the Students Offering Support, UWSA or Liberal Arts and Professional Studies Club• Participate in the Bystander Initiative workshop to gain skills that will help you be an effective and supportive ally to prevent sexual assault on campus	<ul style="list-style-type: none">• Join a professional association in your field such as the Air Transport Association of Canada• Complete Commercial Pilot’s License by passing written exam following 300 nautical miles of solo cross-country flight• Participate in UWill Discover undergraduate research conference HIP• Obtain Multi-Engine Rating and Category 1 Instrument Rating• Apply for student exchange program HIP• Expand your skills by taking on a summer, part-time or volunteer position• Look for a leadership role in a club or society	<ul style="list-style-type: none">• Run for a UWSA executive position• Conduct field research with faculty member HIP• Become a tutor for Students Offering Support (SOS) HIP• Work toward Class 4 Instructor Rating• Put in additional flight time toward the Airline Transport Pilot License
Career	<ul style="list-style-type: none">• Create a list of things that you enjoy, areas in which you excel, and your skills• Meet with a career advisor in Career Development and Experiential Learning (CDEL) for help developing a plan for your future years• Consider a career assessment workshop or appointment to help you identify possible career paths• Get involved with a part-time job, volunteer opportunity, campus group, or research assistantship• Attend CDEL workshops to learn how to find a summer or part-time job and write a resumé and cover letter• Drop in to meet with one of CDEL’s peer advisors to get answers to your career and job search questions	<ul style="list-style-type: none">• Research career fields and occupations with the help of a CDEL career advisor• Explore opportunities and meet employers through job fairs and employer networking events• Explore further educational opportunities by attending the Graduate and Professional Schools Fair and researching admission requirements for programs you are interested in• Attend CDEL’s Using Social Media to Leverage Your Career workshop• Create a LinkedIn profile and have it critiqued• Take part in informational interviews and use sources like LinkedIn and Ten Thousand Coffees to meet people in your targeted profession• Search job postings to learn what skills, knowledge, and credentials you will need for potential careers	<ul style="list-style-type: none">• If you are considering applying to graduate or professional school, be aware of early application deadlines• Meet with CDEL to prepare application documents like a resumé, cover letter, CV, or personal statement for jobs and education programs you are applying to• Attend an Interview Skills Workshop and Job Search Tips Workshop• Use InterviewStream to practice your interview skills online• Set up an in-person mock interview with a career advisor for professional school or job applications• Meet employers at the annual job fair in January• Compose a portfolio of relevant academic and work experience

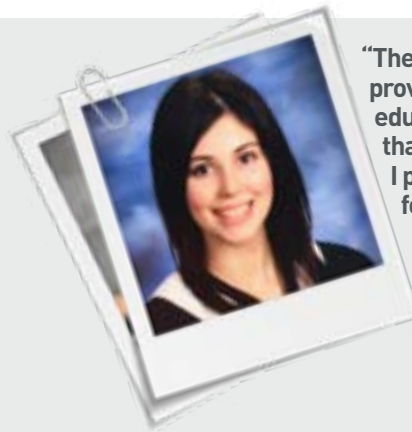
Aeronautics Leadership

Life After Graduation



“The Aeronautics Leadership program prepared me for my career as a Commercial Pilot. My degree helped me secure a full-time Flight Instructing position right after graduating. The leadership experience from my degree is used in my day to day work, helping future pilots reach their career goals.”

TJ Bradd – BA in Liberal Arts and Professional Studies: Aeronautics Leadership [2017]



“The Aeronautics program has provided me with a well-rounded education and leadership skills that I will take with me as I pursue my dream of flying for a commercial airline.”

Jessica Garant –BA (Honours) in Liberal Arts and Professional Studies: Aeronautics Leadership [2018]



COMMON INDUSTRIES FOR AERONAUTICS GRADUATES

- **Academia**
- **Business:** analysis, research, corporate communications
- **Education:** public schools, vocational/corporate training
- **Government services**
- **Flight:** commercial, private, instruction
- **Law and law enforcement**
- **Politics:** political office, campaign management, polling and research, speechwriting
- **Public policy think tanks and consulting:** public/private sectors

CAREER TRACKS*

Aeronautical engineer
Agricultural pilot
Air safety specialist
Air traffic controller
Aircraft test pilot
Airport manager
Avionics technician

Business advisor
Commercial pilot
Design specialist
Flight dispatcher
Flight fueler
Flight instructor
Flight test engineer

Journalist
Lawyer
Marketing manager
Policy analyst
Private pilot
Professor
Project manager

Project engineer
Public official
Public relations officer
Research co-ordinator
Software engineer
Teacher
Tour guide

* Additional education and/or training required for some of the above careers.

CAREER-READINESS COMPETENCIES



Critical Thinking and Problem Solving

Using strategic and creative thinking to make decisions and evaluate solutions



Teamwork and Collaboration

Working as a productive member of a group and collaborating with others to achieve set goals



Professionalism and Work Ethic

Demonstrating personal management practices and a high level of integrity and ethical behaviour



Communication

Appropriate and effective articulation of ideas and information to a range of audiences



Campus Resources

- Research scholarships and bursaries through the **Student Awards and Financial Aid Office**
- Visit **Leddy Library** and the **Writing Support Desk** for help with academic assignments
- Explore mentorship opportunities through the **Connecting4Success (C4S)** and **Bounce Back** programs
- Improve study skills through the **Skills to Enhance Personal Success (STEPS)** program
- Get advice and support about your academic status by making an appointment with **Academic Advising**
- Seek out assistance with academic accommodation from **Student Accessibility Services**
- Discover ways to get involved on campus through the **Student Success and Leadership Centre**
- Look into the **Ignite: Work Study** program for on-campus employment opportunities
- Apply to **VIP** to get involved in a community service learning experience
- Get assistance developing your career plan and job search skills from **Career Development and Experiential Learning**
- Consult with the **EPICentre** if you are interested in starting your own business
- Broaden your cultural awareness through the **International Student Centre** and **Student Exchange Office**
- Find support for Indigenous learners and broaden your understanding of Indigenous culture by visiting **Turtle Island**
- Tend to your health and wellness with support from **Student Health Services** and **Lancer Recreation**
- Receive confidential mental health counselling delivered by trained professionals at the **Student Counselling Centre**
- Seek personal support or learn more about sexual violence education through the **Sexual Misconduct Response and Prevention Office**

Student Recruitment

Phone: 519-973-7014
Toll-Free: 1-800-864-2860
Email: info@uwindsor.ca

Faculty of Arts, Humanities and Social Sciences

Phone: 519-253-3000, Ext. 2029
Email: deanarts@uwindsor.ca

Career Development and Experiential Learning

Phone: 519-253-3000, Ext. 3895
Email: careerservices@uwindsor.ca
experience.uwindsor.ca



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