



UNDERGRADUATE PROGRAMS
AVIATION



YOUR OPPORTUNITY TO TAKE FLIGHT

Gain the best education and training possible at the world's most comprehensive aerospace university.

Highly respected by the aviation industry, the John D. Odegard School of Aerospace Sciences offers a liberal arts core curriculum combined with a professional aviation education in a variety of specialties. Our faculty's firsthand knowledge in every field of the aerospace industry, coupled with a professional, innovative and caring approach to teaching, sets them apart.

Why UND Aviation

Why should *you* study Aviation at the University of North Dakota?

- **Experienced Faculty**
Learn from faculty with a wide variety of both current and previous experience in all facets of the industry
- **Highest Level of Aviation Safety**
Train at the first and only collegiate program to achieve the highest level of Safety Management System (SMS) compliance
- **Restricted Airline Transport Pilot (R-ATP) Certificate Eligibility**
Become eligible to serve as an airline pilot with lower total flight time (1000 vs. 1500 hours)
- **Part 141 Flight Training**
Earn your qualifications at reduced flight times in a highly-structured training environment with in-house examiners (no additional examiner fees)
- **Sophisticated Career Planning**
Take advantage of industry internships, career pathway programs, and a vast network of successful alumni
- **Fly in all Four Seasons**
Gain experience and decision-making skills in all weather conditions



FIND YOUR PASSION

The Odegard School offers a liberal arts core curriculum combined with a professional aviation education in a variety of specialties.

Bachelor of Science in Aeronautics: Commercial Aviation (CMA)

Airplane

The commercial aviation curriculum is designed to fully prepare you for a variety of flight-related careers. You'll gain a solid background in aviation with a liberal arts core. Although you will graduate as a commercial pilot and flight instructor, this major is designed to prepare you as an aviation professional including advanced coursework in aerospace physiology, aerospace law and advanced aircraft operations.

Helicopter

While the Odegard School offers several aviation majors, the Commercial Aviation major with Helicopter option is specific to rotorcraft operations. Students will earn a commercial pilot certificate with instrument rating. Certified flight instructor certificate with instrument rating

is also available. Students may satisfy flight course requirements for any of the academic majors using rotorcraft.

Bachelor of Science in Aviation Safety and Operations (online & on-campus)

Gain the knowledge and expertise to keep air and ground personnel and aviation support systems safe and secure. UND offers a comprehensive curriculum to prepare you to be part of the next generation of aviation safety experts. Benefit from state of the art flight data software created and maintained by UND, that prepares you for the use of aircraft data in future positions.

Bachelor of Science in Aeronautics: Air Traffic Management (ATM)

Earn a B.S. in Aeronautics with a major in Air Traffic Management and benefit from the most technologically advanced control tower and radar simulators. This degree is designed to place students into ATM or related careers.

Bachelor of Science in Aeronautics: Unmanned Aircraft Systems Operations (UAS)

Be among the first generation of unmanned aircraft specialists with training from the university that started it all. This degree prepares students for a career in the rapidly growing field of unmanned aircraft systems (UAS). This sector of the aviation industry utilizes both large and small aircraft flown remotely for military, law enforcement, and commercial uses. Two options are available: actual flight training leads to a commercial

pilot certificate with instrument and multi-engine ratings or private certification with instrument. Students will also complete 70 hours of UAS simulator training.

Bachelor of Science in Aeronautics: Aviation Studies (online only)

If you already have an existing aviation technical background and want to achieve your bachelor's degree in the exciting field of aviation, then this program provides an opportunity to bring greater focus to your career options. Concentrate your studies in aviation safety, management or unmanned aircraft systems.

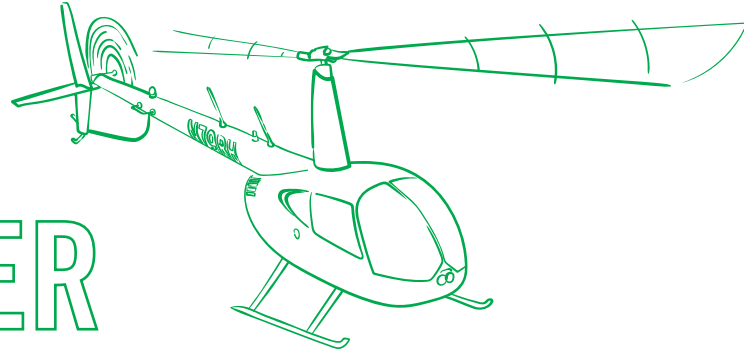
Bachelor of Business Administration: Airport Management (APM)

This degree is designed to fully prepare you for a leadership role in airport management. You'll gain an essential foundation in management, accounting, finance and public administration. These business skills are required to thrive in a fast-paced and demanding profession. You'll learn the essentials about the best business and management practices, as well as aviation and airport technologies and operation.

Bachelor of Business Administration: Aviation Management (AVM)

With an aviation management degree, you'll gain the technical and business skills needed to manage airlines, fixed base operators (FBOs), specialized aviation service organizations (SASOs), and more. You'll also earn an FAA flight certification.

WHAT WE OFFER



Fleet

Train in our modern fleet of airplanes, helicopters, and simulators equipped with the latest in avionics technology. In order to successfully train over 1,700 students on the flight line each term, we take great pride in our numerous aviation safety initiatives that includes an FAA approved Safety Management System (SMS), an active flight data monitoring program and voluntary safety reporting system.

Flight Operations provides exceptional in-house maintenance on our aircraft by our team that has been awarded the FAA Diamond Award of Excellence for the past 29 years.

Flight Physiology Training

Physiology training at UND Aerospace is recognized as some of the best of its kind in the world. Our dedicated team of highly experienced aerospace physiologists utilize a military-grade altitude chamber and state-of-the-art spatial disorientation, vision, and flight-deck smoke training devices. In addition to UND students and aviation students from other colleges, UND's Aerospace Physiology Department has been providing flight physiology, altitude chamber, and spatial disorientation training to professional aviators for over 30 years.

Virtual Reality Training Devices

UND offers its students virtual reality (VR) training devices with customized software that closely simulates the Piper Archer. An immersive virtual environment and 360° view, combined with realistic hands-on flight control hardware, create an engaging flight simulation experience that allows for training opportunities not previously available in PC-based training devices. The VR training devices also offer the flexibility of simulating virtually any aircraft.



Fleet | UND Flight Operations



New ALSIM



Flight Physiology Training



Virtual Reality Lab

LAUREN KERN

'24 | Air Traffic Management Major,
Atmospheric Science Minor



“I am #UNDProud because of the amazing connections and resources that we are provided through the College of Aerospace Sciences. Connecting one-on-one with teachers through smaller classes encourages a brighter and stronger future. I am forever grateful for the opportunities I have had thus far and continue to receive through my time here at UND!”



UND Aerobatic Team

STUDENT INVOLVEMENT

UND Aviation students have many opportunities in which to get involved!

Competitive Teams

Three teams compete at the collegiate (or higher) level:

- UND Flying Team
- UND Aerobatic Team
- Frozen Force Air Race Classic Team

Student Organizations

We offer over a dozen student organizations including:

- Professional Asian Pilots Association (PAPA)
- Latino Pilots Association (LPA)
- Organization of Black Aerospace Professionals (OBAP)
- Student Aviation Management Association (SAMA)

20+

aviation student
organizations

27

national
championships

250+

UND student
organizations





EXPAND YOUR HORIZONS MINORS IN AEROSPACE

Atmospheric Sciences

The atmosphere and its processes impact our world every day, from the use of resources to environmental impacts, water management, agriculture, and energy conservation. This minor builds your knowledge about these processes, forecasting, and how the atmosphere impacts policies, practices, and safety measures.

Space Studies

Explore beyond Earth by learning about the complexities of research, development and operations of space-related disciplines. With a minor in Space Studies from UND, you'll gain an understanding of the political, legal and engineering aspects involved with space ventures.

Sustainability Studies

Develop the skills and knowledge for an interdisciplinary understanding of sustainability goals and the science and strategies needed to achieve these in modern society. This UND minor offers opportunities to creatively address sustainability issues, as local and global citizens, through a more systemic approach to solve real-world problems.

BY THE NUMBERS

Aviation

50+
faculty

420+
flight instructors and staff

2,400+
students

15+
career pathway programs

850+
certificates issued
annually

140+
aircraft in fleet

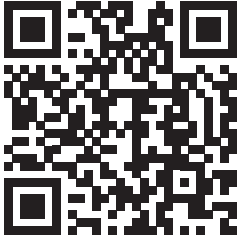
125,000+
annual flight hours

190,000+
airplane and helicopter
landings annually

104,222
total launches dispatched

1,232
total annual inspections





Learn more about
the undergraduate
Aviation programs

aero.UND.edu/aviation



Schedule Your Visit

See UND Aerospace up close and ask all the questions you want! An in-person visit is a great way to see what awaits you at UND.



UND.edu/admissions/visit

Apply today!

UND.edu/admissions