ACADEMIC 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. Our sophisticated career planning program includes industry internships, career pathway programs and thousands of successful alumni who serve as a valuable networking resource for graduates.

Situated on a beautiful 550-acre campus, UND offers a variety of academic, social and extracurricular opportunities. From more than 250 student clubs and organizations to 17 NCAA Division I sports teams, you can get involved in everything from Greek life to intramural rugby games to cheering on our powerhouse ice hockey team in Ralph Engelstad Arena. Plus, with our Aviation Living & Learning Community, you’ll make friends right away as your classmates can be roommates or maybe even your co-pilot.

With a combined population of more than 75,000, our two cities – Grand Forks, ND and East Grand Forks, MN – embody one lively, bustling community surrounded by tranquil, scenic farm country. Restaurants. Shopping. Concerts. Movies theaters. Museums. It’s a place that feels “warm” even in the winter, where you’ll find plenty to see and do, in addition to meeting some of the friendliest people to be found anywhere.
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 Aeronautics: Air Traffic Management (ATM)

Designed to place students into ATM or related careers. The simulation labs feature a 32-position, voice recognition ATCoach radar system, 225° and 360° MaxSim tower systems, and 32 additional radar simulators.

Bachelor of Science in Aeronautics: Aviation Studies (AS)

If you already have an existing aviation technical background and want to achieve your bachelor’s degree in the exciting field of aviation technology, 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 Science in Aeronautics: Unmanned Aircraft Systems Operations (UAS)

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 Business Administration: Airport Management (APM)

Emphasis on the management and operations side of the industry specifically, airport. A unique degree at that combines a business and aviation degree, with the possibility of certification from the American Association of Airport Executives during your senior year. A great program to enter the airport industry.

Bachelor of Business Administration: Aviation Management (AVM)

Prepares students for a career in management and operation of airlines and other airside activities including professional flight. Students will earn a minimum of a commercial pilot certificate with instrument and multi-engine ratings.
General Aviation Trainer (GAT III)

The General Aviation Trainer (GAT III) is an aircraft trainer that combines basic flight training, instrument training and Spatial Disorientation (SD) training in one platform. The GAT III features a single reciprocating engine, propeller driven flight model and realistic, computer generated instrumentation.

The GAT III features an enclosed cockpit, realistic flight controls and a textured high quality out-the-window display to provide a highly realistic training environment. The 3 axes motion system is precisely coordinated with the visual display and the flight control inputs to provide a high fidelity learning environment.

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.
“I am #UNDproud because of all the opportunities throughout campus. I’m well diversified within the aviation department and the rest of campus through student organizations. As far as academics, the aviation faculty is phenomenal. UND Aerospace is a top-notch institution.”
CAMPUS-WIDE
STUDENT INVOLVEMENT

“Getting involved is the best way to set yourself up for success. Not only is it how you’ll make some of your best friends, but it’s the best place to hone your skills as a leader and as a professional.”

PATRICK VERNER, SENIOR | PRESIDENT OF SAAC

27 19 250+
national championships aviation student organizations UND student organizations

FLYING TEAM AIR RACE CLASSIC TEAM AEROBATIC TEAM
EXPAND YOUR HORIZONS
MINORS IN AEROSPACE

Atmospheric Sciences

The atmosphere and its processes impact our world—use of resources, environmental impacts, water management, agricultural and energy conservation. This UND minor builds your knowledge about these processes and how impacts will help influence 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.
AVIATION

BY THE NUMBERS

47 faculty
200+ flight instructors
1,600+ students

15+ career pathway programs
850+ certificates issued annually
100+ fleet

110,000+ annual flight hours
191,337 airplane and helicopter landings annually
1,000,000 gallons of fuel loaded annually