As a UND Aerospace student, you not only receive the finest aviation education available, you’re attending a highly respected university, the University of North Dakota. That means your degree program will prepare you for your career—and your life.
Learn from the leader in aerospace education

Among the biggest and the best, UND Aerospace is recognized around the world for academic excellence. Since 1968, our mission has been to shape the future of the aerospace industry by providing the best possible education and training available. Our students go on to chart their own successful career paths on the way to becoming tomorrow’s industry leaders. Our faculty’s firsthand knowledge in each and every field in the aerospace industry, coupled with a professional, innovative and caring approach to teaching, sets them apart. UND students get to know their professors. And, from the most technologically advanced simulators to the world’s largest collegiate training fleet, our state-of-the-art facilities provide students with an education that is second to none.

More than 13,000 students are enrolled in 180 fields of undergraduate and graduate study at UND. The beautiful, 570-acre wooded campus is a unique blend of classic, ivy-covered halls, high-tech complexes and research centers. More than half of all UND students belong to at least one of more than 220 organizations on campus, and many more take advantage of our outstanding facilities for athletics, music, arts and recreation.
Located in Grand Forks, North Dakota, the college experience at UND stretches beyond our tranquil campus setting. With a population of about 60,000, Grand Forks and East Grand Forks is a thriving cultural and retail center. Theatres, parks, art galleries, museums, sporting events and concerts provide students with plenty to do. A University Village adjacent to the campus includes a campus bookstore, convenience stores, restaurants and other services, and is home to a spectacular ice hockey arena considered to be one of the world’s finest. The region’s newest events center, located near campus, hosts a variety of entertainment and attracts some of today’s hottest acts.

As for the weather, we get all kinds. Our northern location with plenty of sunshine and four full seasons provides future pilots with valuable experience: they face nearly every weather condition during their college years that they could ever encounter in a lifetime of flying.
Reasons to enroll in UND Aerospace

1. A full-time placement staff is on hand to help place graduates.
2. A comprehensive liberal arts education is more marketable than a narrowly focused trade school education.
3. Students have an opportunity to qualify for scholarships from UND’s generous scholarship fund.
4. Hundreds of internships are made available for undergraduates who want practical experience and a head start on their careers.
5. Graduates are better equipped to keep pace in the ever-changing aerospace industry.
6. UND Aerospace alumni number in the thousands. This group of successful, highly recruited individuals can be a valuable networking resource throughout a graduate’s career.

Limitless opportunities

With more than 1,800 students from throughout the world, the John D. Odegard School of Aerospace Sciences is the second largest college at the University of North Dakota. Undergraduate and graduate programs leading to a variety of rewarding careers in aerospace are offered through four different academic departments: Aviation, Atmospheric Sciences, Computer Science and Space Studies.
An exciting career in aerospace

The opportunities in the fascinating frontier of flight are many. In the U.S., the aviation industry alone supports more than 8 million jobs. And according to the FAA, air travel is expected to more than double over the next 20 years—which means airlines around the world will be carrying two and one-half billion passengers each year. Aerospace and its ever-changing technology will continue to demand a bigger, better work force to manage and lead this dynamic industry into the future. If a lifetime of excitement, achievement and fulfillment sounds attractive to you, welcome to UND Aerospace.

Academics and real-world discovery

UND has long had an international reputation for research in atmospheric sciences, climatology, space studies, aviation and a host of other areas. The school has received a steady stream of multimillion-dollar research contracts, creating a unique research and education complex that gives our students opportunities to participate in funded research projects even at the undergraduate level.

An exceptional learning environment

Our $83 million aerospace complex spans more than 400,000 square feet. An enclosed skyway system connects all aerospace buildings and provides students with convenient access to classes, regardless of the weather. We also offer:

- One of the largest training fleets in the world
- Advanced flight training devices
- Cockpit procedure trainers
- High-altitude physiology chamber training
- Air traffic control simulation lab
- Regional Weather Information Center
- Digital Doppler radar
- Atmospherium
- Satellite broadcast center
- Interactive computer labs
- Atmospheric research jet
The Department of Aviation offers six different majors in two degree programs, plus a master's program:

A Bachelor of Business Administration (B.B.A.) degree may be earned in either Aviation Management or Airport Management and is granted by the College of Business and Public Administration.

A Bachelor of Science (B.S.) in Aeronautics may be earned in Commercial Aviation, Air Traffic Control, Flight Education or Aviation Systems Management, and is granted by the John D. Odegard School of Aerospace Sciences.

A Master of Science (M.S.) degree in Aviation provides graduates with the necessary educational background to solve problems in the field—as industry professionals with the airlines, in corporate aviation, general aviation and airport management.
B.B.A. in Aviation Management / prepares students for a career in management and operation of airlines and other airside activities within the industry. You’ll receive a solid foundation in both aviation and business. By graduation, you will have earned a minimum of a commercial pilot certificate with instrument and multi-engine ratings. This degree is granted by UND’s College of Business and Public Administration.

B.B.A. in Airport Management / places more emphasis on the management and operation of ground activities critical to the industry and less on actual flight. Upon graduation, you will have earned a private pilot certificate. This degree is granted by UND’s College of Business and Public Administration.

B.S. in Aeronautics: Commercial Aviation / designed for a variety of flight-related careers, this degree combines a liberal arts core with broad-based aviation courses and the comprehensive pilot training curriculum. You will also earn a commercial pilot certificate with instrument and multi-engine ratings, and a certified flight instructor certificate with instrument rating.

B.S. in Aeronautics: Flight Education / prepares students who wish to pursue a career as an aviation educator. It combines flight instructor ratings with vocational education courses. You will also earn a commercial pilot certificate with instrument and multi-engine ratings, and a certified flight instructor certificate with instrument and multi-engine ratings.

B.S. in Aeronautics: Air Traffic Control / the first program of its kind, this degree is designed to place students directly into this exciting field. Curriculum includes training that utilizes a state-of-the-art Virtual Controller simulator and radar simulators plus study in a second field. Upon graduation, you will have earned a private pilot certificate or have taken the Survey of Flight course.

B.S. in Aviation Systems Management / developed as the latter half of a two-plus-two degree, this two-year program allows students with a two-year degree in aviation maintenance, avionics, electronics, dispatch or other support services to complete a bachelor’s degree with an emphasis on management. Upon graduation, you will have earned a private pilot certificate.

M.S. in Aviation / provides graduates with advanced knowledge and skills that prepares them for careers in the aviation industry, aviation-related government jobs, and for further research and development in the field of aviation.

Airline Pilot Hiring Programs
UND Aerospace has pilot hiring programs with several regional airlines. These airlines have significantly reduced flight experience hiring requirements exclusively for UND graduates—an example of the confidence the industry has in our graduates.

Certified Flight Instructor
Earn credits as you learn the responsibilities and teaching requirements of being a Certified Flight Instructor (CFI). This program can lead to a full-time job at UND Aerospace as a flight instructor.

An unqualified commitment to safety, quality equipment, and clear, easily understood safety policies and procedures all help make UND’s aviation safety program second to none. We have an enviable safety record for the number of hours flown in an environment of predominately low time student flight training—reflecting the professionalism and outstanding ability of our students and faculty.
On the cutting edge in weather, UND’s Department of Atmospheric Sciences has unique research and teaching facilities that offer students rare opportunities to gain hands-on training. Specializing in the study and research of our planet’s delicate environment, the department partners with the Regional Weather Information Center, the National Weather Service Office in Grand Forks, and other groups to provide students with real-world experiences that will better prepare them for careers in the atmospheric sciences.

The department has an instrumented research jet aircraft, Doppler weather radar, and a ground research facility available for atmospheric and hydrologic research. It has played a major role in programs for the FAA, NASA, NSF, DOE, DOD, DOT and other federal agencies as well as for major aircraft manufacturers and foreign countries.

Students in atmospheric sciences receive a professional education and benefit from the department’s worldwide reputation in atmospheric research, technologically advanced facilities, and exceptional faculty.
UND students are taught by faculty who conduct this research, and these associations allow our students to take part in research projects of national importance. We are also affiliated with the campus television studio, which provides experiences in broadcast meteorology.

Weather forecasting, broadcast meteorology, private sector meteorology, academia and atmospheric research are all active areas of employment for those with education in the atmospheric sciences. The department offers a Bachelor of Science (B.S.), Master of Science (M.S.), and an undergraduate minor program.

B.S. in Atmospheric Sciences / prepares students for careers in industry, government and broadcasting. This rigorous program provides a strong foundation in the basic physical sciences, advanced study in atmospheric processes, and research opportunities.

M.S. in Atmospheric Sciences / prepares students for advanced careers in atmospheric sciences or continuing study at the doctoral level. Also offered to off-campus students through distance learning facilities.
Computer Science

Students in computer science at UND prepare for a variety of careers in this rapidly evolving technological environment—from theoretical problem-solving to practical applications for science and business. Our facilities include everything from PCs to a high-performance computing cluster, and our distinguished faculty are experts in everything from computer graphics to artificial intelligence.

The department emphasizes the practical application of computer science and engages students, both graduate and undergraduate, in research projects. Graduates choose from careers in systems programming, software development, hardware design, application programming and other areas. National companies such as IBM, Unisys, Rockwell/Collins and many others recruit UND students.
We offer a Master of Science (M.S.), a Bachelor of Science (B.S.) accredited by the Computer Accreditation Commission of the Accreditation Board for Engineering and Technology, plus a Bachelor of Arts (B.A.). An undergraduate minor in computer science is also available.

**B.S. in Computer Science /**
designed for students who intend to pursue graduate studies or a career involving the technical and scientific applications of computing, the curriculum emphasizes the mathematical and scientific aspects of this dynamic science.

**B.A. in Computer Science /**
recommended for students seeking a broader-based liberal arts education, the flexible curriculum includes humanities courses in place of some of the science and mathematics requirements.

**M.S. in Computer Science /**
prepares students for leadership roles in high technology industry. Research areas include artificial intelligence, software engineering, computer graphics, Internet technology, networks and operating systems, modeling and simulation.

Students learn the scientific foundations and basic skills needed to design, implement, analyze and manage software systems in the rapidly evolving world of computation. The learning environment is enhanced by direct interaction with faculty members who have top credentials and expertise in numerous areas of specialization.
The Department of Space Studies introduces students to the breadth and depth of robotic and human exploration and the development of space. The multidisciplinary nature of the department allows students to expand their knowledge in both technical and policy areas of the space arena.

While specialized training is an essential part of space development, there is also a need for people with broad backgrounds and an understanding of the overall picture so that they can become the scientists, engineers, planners, troubleshooters, negotiators and communicators of the space community. This program prepares students for positions in the commercial, government and academic sectors of the rapidly growing field of space exploration.

Space Studies faculty are experts in planetary science, astronomy, remote sensing, public policy, law, business, history, management, engineering, life support and human factors. They represent all three major sectors of space activity: civil, commercial and military.

Students from almost anywhere in the world can earn a UND graduate degree in Space Studies. Since its inception in 1987, more than 500 students from nearly every state and many foreign countries have graduated from the department.
The department offers a Master of Science on campus and via the Internet, as well as an undergraduate minor. Through www.space.edu, distance degree students are provided the same educational opportunities as on-campus students.

Space Studies is the headquarters for the NASA North Dakota Space Grant Consortium and North Dakota NASA EPSCoR, whose missions are the enhancement of NASA-related research and education infrastructure in North Dakota.
Spreading our wings

With educational partnerships and business alliances around the world, UND Aerospace remains at the forefront of technology while providing top quality, relevant education and training for students of all ages. From tracking pollution in the Middle East to sending information to farmers who use it to analyze local conditions, the experts at UND Aerospace are constantly working on new projects to improve our world.

ROTC opportunities

Interested in serving your country, too? Opportunities in the Reserve Officers’ Training Corps (ROTC) are available to qualified UND Aerospace students. Apply to the Army ROTC, the nation’s only collegiate scholarship program to offer helicopter training, or the Air Force ROTC.
Aerospace Foundation

Through its Aerospace Foundation, UND has contracted with airlines and government agencies from Europe, Asia, the Middle East and Russia, providing \textit{ab initio} training for air traffic controllers, fixed-wing and helicopter pilots. Alliances with business and corporations bring additional resources to UND Aerospace and give our students unique opportunities for internships, job placement and networking. Representatives from more than 130 corporations worldwide have attended UND’s Aerospace Physiology Training since 1989. The foundation operates flight centers throughout the country and also conducts factory training for aircraft manufacturers.

Flight Training Centers

Flight Training Centers (FTCs) at the following locations allow UND Aerospace to offer education and training across the United States. Students can complete general education and flight training at satellite locations before transferring to UND to complete their education.

For the most current information on any of our FTCs, visit the website: \texttt{http://ftc.aero.und.edu}

- Chandler-Gilbert Community College
  - Phoenix, Arizona

- Honolulu Community College
  - Honolulu, Hawaii

- Robeson Community College
  - Lumberton, North Carolina

- Spokane Falls Community College
  - Spokane, Washington

- University of Minnesota-Crookston
  - Crookston, Minnesota

- Williston State College
  - Williston, North Dakota

UND Aerospace has teamed up with Cirrus Design in Duluth, Minn., to provide factory authorized training for customers of Cirrus aircraft. We’ve created a training program designed specifically to transition pilots into the highly-automated, fast-paced flight environment of Cirrus aircraft.
**AeroSpace Network (ASN)**

A division of UND Aerospace known for its cutting-edge approaches and technologies, ASN serves learners on a global campus. A unique combination of full-service broadcast and multimedia production facilities coupled with software design and development expertise has made the division an incubator for innovative distance learning.

ASN has provided instructional support, software solutions and media production to educational and business clients since 1993. It is also the home of HTMLeZ, a course management tool originally created to support UND’s world-class distance education programs, but now available to anyone who wants to create graphically rich, interactive websites without having to learn HTML or programming.

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**Regional Weather Information Center (RWIC)**

A division of the John D. Odegard School of Aerospace Sciences, RWIC provides up-to-date, comprehensive weather data and is a recognized leader in the research of atmospheric sciences. RWIC provides employment and research opportunities for UND graduate and undergraduate students, and supports weather broadcasting activities for the University’s award-winning “Studio One,” a live television show created by UND students.
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