THIS IS UND AEROSPACE

AEROSPACE



ABOUT

fleets of civilian aircraft in North America. UND Aerospace is a world-renowned center for aerospace learning, nationally acclaimed for our achievements in collegiate aviation education, atmospheric research, space studies, and earth system science and policy research. The John D. Odegard School of Aerospace Sciences is setting the

pace for the future of flight.

A TRADITION OF EXCELLENCE It all began in 1968 with two donated planes, twelve students, and the formation of UND's Department of Aviation. In 1982, the Center for Aerospace

> \$5M+ in research



UND AEROSPACE

The second-largest degree-granting college at UND, the John D. Odegard School of Aerospace Sciences operates one of the largest

> Sciences (later named The John D. Odegard School of Aerospace Sciences) was established to handle the tremendous growth of UND's atmospheric research and aviation education programs. The John D. Odegard School of Aerospace Sciences is now the second-largest of UND's degree-granting colleges, and operates one of the largest fleets of civilian flight training in North America.

2,200+ students from around the world

700+ faculty and staff members



Learn more about **Atmospheric Sciences** aero.UND.edu/atmos

ATMOSPHERIC SCIENCES

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Our graduates are helping society face the challenges of a complex and changing environment.

Explore career options and prepare for your future career in the atmospheric sciences.

What sets UND's Atmospheric Sciences Department apart?

- Nearly all teaching faculty conduct funded research, which is incorporated into courses
- Undergraduate curriculum emphasizes communication and computing skills needed in the job market
- Real-world learning opportunities, including daily weather broadcast, NWS Student Volunteer Program, research assistantships, and other internships
- Close proximity to the National Weather Service and other private agencies



Our Programs

ATMOSPHERIC SCIENCES (MINOR)

Minor | 2 years | On-Campus

Explore the wonders of our atmosphere and how it impacts our society and physical environment. 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.

BACHELOR OF SCIENCE (B.S.)

Major | 4 years | On-Campus

The atmosphere and its processes impact all human life on Earth. The next generation of atmospheric scientists will expand our understanding of meteorological phenomena and provide advanced lead time of hazardous weather. This UND program prepares you for a career in this evolving field.

COMBINED ATMOSPHERIC SCIENCE DEGREE (B.S./M.S.)

Combined Major & Master's | 5 years | On-Campus

If you're looking for the straightest line from education to professional, a UND Master of Science (M.S.) degree is right for you. And, now with the option of a combined degree program, you can complete your higher

Check the weather year-round with the Atmospheric

Cameras mounted on top of Clifford Hall (facing east



education in an efficient way. With this graduate program, you'll gain the hands-on and practical expertise that today's employers are looking for.

MASTER OF SCIENCE (M.S.)

Master's Degree | 2 years | On-Campus

Today's tumultuous, often life-threatening atmospheric changes requires a high level of expertise to help society navigate and cope in constructive ways. This program offers the experience to fill critical roles in research and helping society adapt. With this knowledge, you can help increase our understanding of the atmosphere, protect health and property in communities, and create opportunities in private industry.

ATMOSPHERIC SCIENCES PH.D.

Doctoral Degree | 4 years | On-Campus

Advance your education and talent to the highest level. Our comprehensive curriculum will prepare you for a leadership role in research, private industry or teaching in a university setting.



Learn more about Aviation aero.UND.edu/aviation



AVIATION

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.

What sets UND's Aviation Department apart?

- World-renowned academic excellence
- Largest collegiate training fleet in the world
- State-of-the-art facilities
- 7 aviation degrees
- Liberal arts core curriculum

Mission

Working together, we will deliver the highest quality education, research, and service in aviation and related disciplines to our students, our college, and the worldwide aerospace community.

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

Minors

AVIATION MANAGEMENT MINOR

Minor | 2 years | On-Campus

With this minor in Aviation Management at UND, you'll gain the policy and business skills needed to manage airlines, airports and general aviation.

PROFESSIONAL FLIGHT MINOR

Minor | 2-3 years | On-Campus

Bring your career into greater focus with a commercial pilot certification that allows the option for flight training in fixed wing aircraft or helicopters. Gain the fundamental knowledge and essential experience to launch your career in a variety of professional opportunities.

UNMANNED AIRCRAFT SYSTEMS MINOR

Minor | 1-2 years | On-Campus

Unmanned Aircraft Systems are rapidly changing everyday life. With this minor program, you'll learn to fly drones and all about the unmanned industry from the first school to offer a UAS degree, which can be applied to your major.

AVIATION DEGREE PROGRAMS CONTINUED



Undergraduate Programs

AIR TRAFFIC MANAGEMENT (B.S.)

Major | 4 years | On-Campus

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.

AIRPORT MANAGEMENT (B.B.A.)

Major | 4 years | On-Campus

Pursue a rewarding career in management combined with the exciting world of aviation, with a degree in Airport Management. You'll benefit from a comprehensive curriculum that focuses on administrative areas related to airport operations, planning and consulting.

AVIATION MANAGEMENT (B.B.A.)

Major | 4 years | On-Campus

There's more to running a successful flight operation than just flying. 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.

AVIATION SAFETY & OPERATIONS (B.S.)

Major | 4 years | On-Campus or Online

A demanding but rewarding career in aviation safety requires broad-based aviation knowledge and specialized technical and procedural knowledge.

UND offers a comprehensive curriculum to prepare you to be part of the next generation of aviation safety experts.

AVIATION STUDIES (B.S.)

Major | 4 years |Online

Earn your bachelor's degree in Aviation Studies, which provides an opportunity to bring greater focus to your career options. Best of all, you'll graduate from one of the strongest collegiate aviation programs in the country.

COMMERCIAL AVIATION (B.S.)

Major | 4-5 years | On-Campus

Broaden your career with a commercial aviation degree that allows the option for flight training in fixed-wing aircraft or helicopters. Gain the fundamental knowledge and essential experience to launch your career in a variety of professional opportunities.

UNMANNED AIRCRAFT SYSTEMS OPERATIONS (B.S.)

Major | 4 years | On-Campus

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.



School of Aerospace Sciences at UND.





Our Programs

SUSTAINABILITY STUDIES MINOR

Minor | 2 years | On-Campus

Develop the skills and knowledge for an interdisciplinary understanding of sustainability goals and the science and strategies needed to achieve these goals 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. MASTER'S OF ENVIRONMENTAL MANAGEMENT (M.E.M.)

Master's Degree | 2 years | On-Campus or Online

This master's of environmental management program is geared toward those with a strong background in environmental and sustainability science, and environmental policy by providing advanced quantitative

EARTH SYSTEM SCIENCE & POLICY (ESSP)

Address today's environmental and sustainability challenges to define and shape tomorrow's positive and sustainable changes.

Combine social and natural science in an interdisciplinary education to lead the way in solving complex human-driven impacts affecting a sustainable Earth system and a prosperous economy.

What sets UND's Earth System Science & Policy Department apart?

- An original approach that bridges theory with practice, global and local perspectives, and scientific and social disciplines
- A student-structured curriculum, a multi-disciplinary teaching approach, and experiential learning environments
- Students are equipped with skills and knowledge in natural science, environmental policy, and economics to solve realworld issues through a holistic approach

and analytical knowledge, integrated geospatial technology skills, and a breath of professional component that includes business, economics and communication.

MASTER OF SCIENCE (M.S.) Master's Degree | 2-3 years | On-Campus

Human activities are generating changes to Earth's land surface, oceans, coasts and atmosphere, biological diversity, water cycle, and biogeochemical cycles. These changes demand graduate-level research and technical expertise. This master's is for those interested in the science of the Earth's systems and how that science can be integrated into sustainability.

- Master skills needed in the job market such as geospatial tools, computing skills, natural economics, environmental science, and policy tools



EARTH SCIENCE PH.D.

Doctoral Degree | 4-5 years | On-Campus

Learn to generate rigorous scientific inquiry that bridges the gaps identified in scientific knowledge. UND's Earth System Science and Policy Ph.D. combines theory with practice; global and local perspectives; and scientific and social disciplines.



Learn more about Space Studies aero.UND.edu/space

NORTH DAKOTA SPACE GRANT CONSORTIUM

Space Grant is a national network of colleges and universities working to expand opportunities for Americans to understand and participate in NASA's aeronautics and space projects. The North Dakota Space Grant Consortium, headquartered at UND, engages students and educators across North Dakota at all 18 affiliate institutions. All UND students who meet the eligibility requirements may apply for NDSGC opportunities. Opportunities include:

- NASA Internships
- Scholarships
- Research Fellowships

Hands-on STEM

SPACE STUDIES

What sets UND's Space Studies Department apart? Our Programs

- Interdisciplinary and multidisciplinary space program, and oldest and largest in the nation
- Distance education opportunities for current space professionals and educators
- On-site human space flight analog
- Access to world-class researchers at a public university price
- Networking opportunities across a wide range of current space professionals

History

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In the early 1980s, John D. Odegard invited Buzz Aldrin, the second man to walk on the Moon, to come to UND to help organize a space education program within the college.

Today, the Department of Space Studies has
approximately 25 M.S. students on campus and more
than 100 students in the distance program.Successful aerospace professionals possess broad backgrounds
linking science, engineering, policy, business and law. Get your doctoral
education from a world-renowned center for aerospace learning, the
John D. Odegard School of Aerospace Sciences at UND.



- Mini-Grants
- Travel Funding



Learn More! ndspacegrant.UND.edu

First and global leader in interdisciplinary graduate studies

SPACE STUDIES MINOR

Minor | 3 years | On-Campus

Reach new horizons 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 scientific and engineering aspects involved with space ventures.

MASTER OF SCIENCE (M.S.)

Master's Degree | 2-4 years | On-Campus or Online

UND has the first space studies program of its kind in the world! Our master's in Space Studies is designed for those seeking to enter the space field or are an aerospace professional who wishes to expand your knowledge.

AEROSPACE SCIENCES PH.D.

Doctoral Degree | 4-7 years | On-Campus or Online

FLIGHT OPERATIONS

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.

BY THE NUMBERS

140 +aircraft in fleet

1500 +certificates and ratings issued annually

> 125,000+annual flight hours

420+ flight instructors and staff

104,222 total launches dispatched annually

FLIGHT PHYSIOLOGY

Experience the physiological effects of high-altitude flight in a hypobaric altitude chamber.

Physiology training at UND Aerospace is recognized as some of the best of its kind in the world.

For over 30 years, UND Aerospace has conducted highly-specialized, research-based physiology courses for over 140 corporate and commercial organizations.

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.

BY THE NUMBERS

10,000+ collegiate, corporate, and commercial pilots trained

3,000+ altitude chamber flights performed

Learn more about Flight Physiology Training offered at UND Aerospace

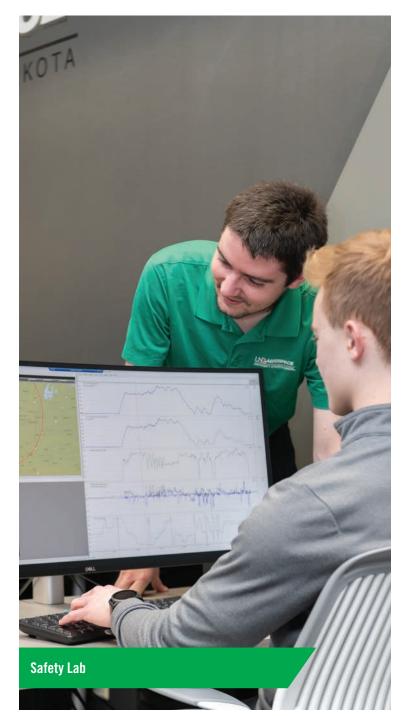


aero.UND.edu/ physiology

aviation/we-offer/

100+

combined years of instructor experience





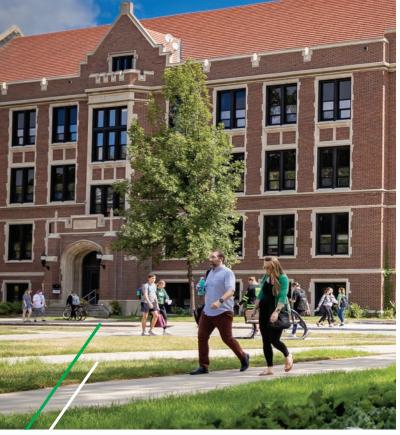




Inflatable Lunar/Mars Analog (ILMAH) Habitat

CAMPUS LIFESTYLE

There's something for everyone at the University of North Dakota.



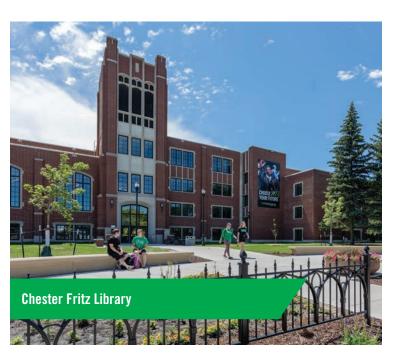
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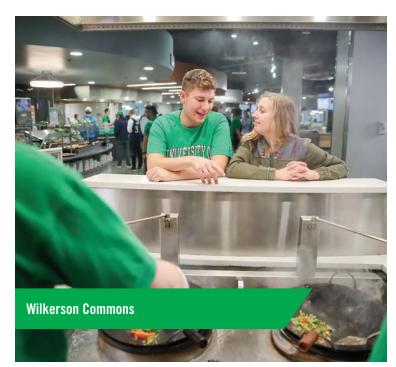
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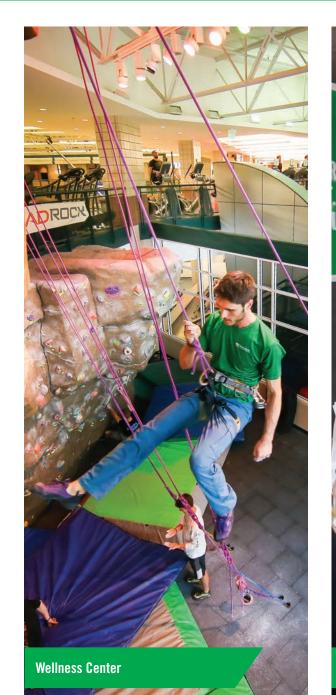
sororities

248 student clubs and organizations

10 colleges









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GET SOCIAL WITH US!

@UNDAerospace



#flyUND #UNDproud



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