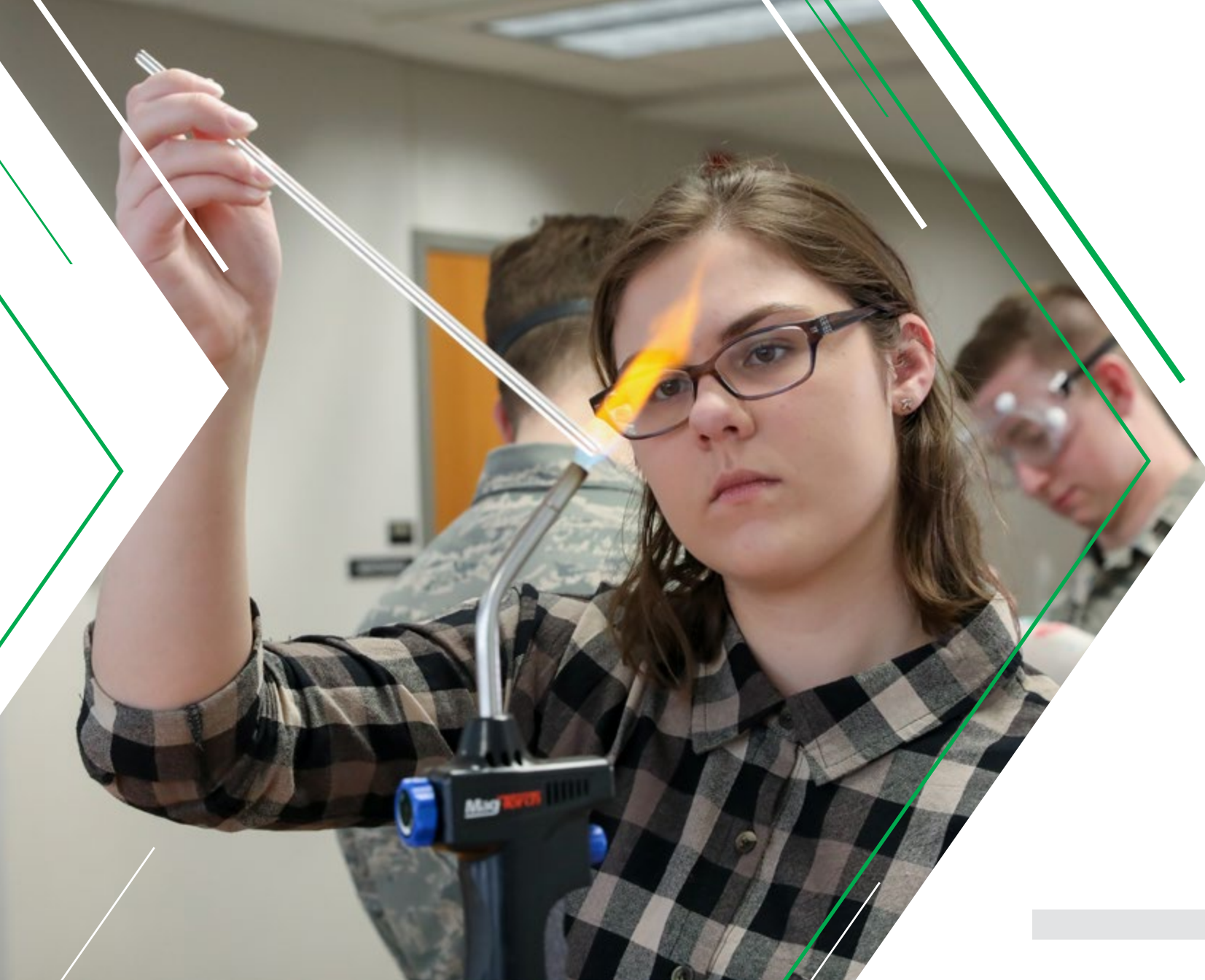


UNDERGRADUATE PROGRAM ATMOSPHERIC SCIENCES





YOUR OPPORTUNITY TO LEAD

The Department of Atmospheric Sciences is committed to offering a comprehensive undergraduate program that educates students in the basics of atmospheric science and prepares them for successful careers.

The curriculum includes observational techniques, data analysis and practical application. We also provide numerous experiential learning opportunities.

Why UND Atmospheric Sciences

Many colleges and universities offer an undergraduate degree in Atmospheric Sciences or Meteorology. Why should *you* choose the University of North Dakota?

- **Combined B.S./M.S. Degree**
Earn a Bachelor's degree and Master's degree in only 5 years
- **National Weather Service (NWS) Forecast Office**
Assist NWS personnel while gaining class credit, only one block away from campus
- **Weather Measurements**
Collect data using a variety of instruments like weather balloons, radar, and 3D-printed instruments
- **Broadcast Studio**
Gain experience producing a daily weather show in our broadcast studio
- **Teaching**
Take the opportunity to lead an introductory meteorology lab section
- **Research**
Work on research with faculty
- **Four seasons**
Experience a wide variety of weather conditions



FIND YOUR PASSION

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.

Bachelor of Science (B.S.) in Atmospheric Sciences

Prepares students for careers in government, industry and broadcasting. This rigorous program provides a strong foundation in the basic physical sciences, advanced study in atmospheric processes and research opportunities.

Master of Science (M.S.) in Atmospheric Sciences

Serves students seeking advanced knowledge for professional work in the atmospheric sciences as well as those who are interested in continuing graduate studies at the doctoral level.

Doctor of Philosophy (Ph.D.) in Atmospheric Sciences

Prepares students for leadership roles in academia, government, and private industry in the field of atmospheric sciences.

Combined B.S./M.S. in Atmospheric Sciences

Provides an efficient path to completion of an advanced degree and competitive qualifications for entry into a professional career.

WHAT WE OFFER

Research Aircraft

The University of North Dakota utilizes a Cessna Citation II aircraft for the purpose of atmospheric research. This aircraft has the capability to sample winds and turbulence, cloud microphysics, atmospheric chemistry and aerosol, and electric field. Operating altitudes range from near the surface to 13 km.

Weather Radar

The University of North Dakota owns and operates a 5-cm wavelength polarimetric Doppler weather radar, dubbed NorthPol. The system is used to support not only departmental research but also hands on classroom learning through radar courses taught in the Atmospheric Science Department.

Weather Broadcasting

Students have opportunities to gain experience in weather broadcasting. The student-run Daily Weather Update creates a weather segment five days a week for broadcast on the Atmospheric Sciences webpage and social media. The show relies on students for content, graphics, and on-air presentation.

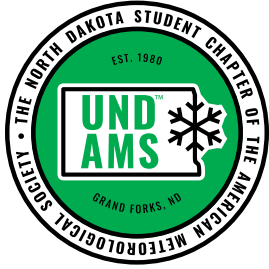
Aerosol Robotic NETWORK (AERONET)

AERONET (AErosol RObotic NETwork) is a worldwide sun-photometer network that provides measurements of aerosol properties for climate and air quality related applications. The UND AERONET station is located at the UND observatory site west of Grand Forks and is used to study local aerosol phenomena as well as long range aerosol plume transports.

Thunderstorm Experience Class

Follow the class as they chase severe thunderstorms and tornadoes on twitter @UNDChase.

WHAT WE OFFER



UND AMS (American Meteorological Society)

This chapter of the national AMS organization is for all UND students interested in the weather. Activities include community service projects, fundraisers, and social events to foster fellowship between our members.

BY THE NUMBERS

Atmospheric Sciences

90%+
placement rate

60
students

11
faculty members

1
weather broadcast studio

24
workstations in forecasting lab

\$5M
in active research grants



Scan to watch!



2021-11-07 17:31:40 UND Aerospace - Dept. Atmospheric Sciences - Grand Forks, ND USA

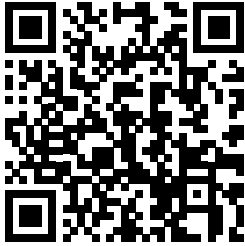
FOLLOW OUR SKYCAMS

Check the weather year-round with the Atmospheric Sciences SkyCam!

Funded by a number of generous donors during an UND Alumni Association Crowdfunding campaign in 2018, a high-definition camera was installed on top of Clifford Hall. Facing west, it looks across Ryan and Robin Halls. The astute observer can even see the hustle and bustle of air traffic in and out of the Grand Forks Airport! In the short time it has been operational, the camera has witnessed a number of interesting weather phenomena including gravity waves, light pillars, blowing snow, and sun dogs.



youtube.com/UNDAtmosphericSciences



Visit the Program
Finder to learn more
about Atmospheric
Sciences

UND.edu/academics



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.



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Apply today!

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