Unmanned Aircraft System Operations (B.S. Aero)

Be among the first generation of unmanned aircraft specialists with training from the university that started it all.

Unmanned aircraft systems (UAS) have gone from strictly military use, to a wide variety of life-saving and commercial applications. With this unique UND program, you’ll gain the expertise in unmanned aircraft to execute and manage applications in the military, firefighting, disaster relief, law enforcement, surveillance, aerial photography, transports and future uses of this rapidly evolving area.

Program Snapshot

Program type:
Major

Format:
On-campus

Est. time to complete:
4-5 years

Credit hours:
125

Why Study Unmanned Aircraft System Operations at UND?

With 50 years of experience in Aviation education, training, and research, UND was the first to offer a UAS degree in 2009, and our program has led the way ever since. You’ll gain expertise to work in a crew environment as a Pilot operator, sensor operator, or other key team member of unmanned aircraft systems. You’ll also gain a clear understanding of National Airspace System safety and operations procedures.

UND offers a comprehensive UAS Aviation degree including relative topics such as: human factors, crew resource management, autonomous systems, counter UAS applications, experience in small, medium and large UAS, safety management, and aircraft systems.

Our Grand Forks campus has been called “the Silicon Valley of unmanned aircraft systems” by the New York Times. UND students are given the opportunity to interact with small and large UAS companies such as Northrop Grumman, General Atomics, and Customs Border Protection. Flights are conducted regularly where UND flight students are jointly flying next to Unmanned Aircraft in the National Airspace System.

Accreditation

UND Aerospace was the first four year degree UAS Operation program to receive Aviation Accreditation Board International (AABI) Accreditation for Unmanned Aircraft Systems (UAS), AABI Policy 3.4.2 Compliance

Priority Application Deadlines

FALL: Feb. 1* (freshmen) | April 15* (transfer students)

*academic scholarship priority deadline

UND is no longer accepting students for Spring or Summer 2019 in the following four programs: Aviation Management, Commercial Aviation, Flight Education, and Unmanned Aircraft Systems. If you are applying for those programs, please select Fall 2019 or a later term or choose a different program of study. The priority deadline for Fall 2019 applicants is February 1.
Program Highlights

- Learn the skills to perform and coordinate strategies in UAS operational environments, as well as solve problems as they arise.

- Gain UAS airmanship skills commensurate with a Commercial Pilot Certificate with Instrument Rating.

- Gain essential knowledge in UAS related topics such as industry trends, ground and flight systems, remote sensing, aerodynamics, human factors, safety, crew resource management, UAS law and policy - all key principles common to UAS operations.

- Gain a working knowledge of UAS technologies and their application in governmental and civil operations.
Outcomes

100K
According to CNN Money, the average starting salary for a UAS pilot is $100,000.

140B
The global UAS market is expected to reach $140 billion by 2024.
As the first university to offer a UAS degree and the only university-accredited for UAS by AABI, UND has been at the forefront of educating the first generation of UAS pilot operators and professionals in related fields. With large employers in various industries seeking the unique and specialized UAS skills to deploy and manage program, graduates can expect plentiful opportunities.

UND graduates with a B.S. in Unmanned Aircraft System can expect exciting opportunities in several industries, including:

- Oil and Gas
- Windmill Inspection
- Construction
- Agriculture
- Military and defense
- Law enforcement
- Firefighting
- Transport
- Surveillance
- Aerial photography
- Air and rescue

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