Data Science (M.S.)

Gain the data science skills employers want.

Bring data to life with UND’s Master of Science in Data Science. Our unique curriculum delivers the perfect balance between theory and application. Your interdisciplinary analytics training will set you apart in the data science industry.

Program Snapshot

Program type: Master's Degree  
Format: On-campus or online  
Est. time to complete: 2 years  
Credit hours: 30 (non-thesis and thesis options)

Why Earn a Master's Degree in Data Science at UND?

Data scientists are in demand in several fields, and in different roles. Those with the technical expertise to be able to work effectively with data at scale is limited. Rapidly rising salaries for data engineers, data scientists, statisticians, and data analysts reflect the shortage and increased interest in recruiting talent in this vital area.

With the data science graduate program, you'll become part of a highly-skilled workforce that can support the expansion of data science-related industries. This advanced curriculum is an ideal marriage of computer science, data science and business analytics for well-rounded expertise in one of the fastest growing areas in the realm of computing. You'll gain strong interdisciplinary knowledge, and a domain-specific, analytics foundation, as well as experience with leading research.

100% Online Accredited Data Science Graduate Program

UND's master's in data science is offered on-campus or 100% online. UND is fully accredited by the Higher Learning Commission.

Application Deadlines

Fall: Aug. 1  
Spring: Dec. 1

Data Science Graduate Program

- Participate in research and further existing studies with big data, including unmanned aerial systems (UAS) and high-tech engineering.  
- Focus on a variety of areas of training via elective courses, including artificial intelligence, cyber security and scientific visualization.  
- Participate in research projects, cooperative education and seminars with organizations or corporations.  
- Gain the graduate-level knowledge and expertise to successfully research and work with large data sets in a variety of industries and professional settings.
- The supercomputer at UND runs on the HPE Apollo 6500 Gen10 system, purpose-built for HPC and a leading platform for deep learning.
Careers in Data Science

650%  Data scientist roles have grown over 650 percent since 2012.*
700K  Annual demand for the fast-growing new roles of data scientist, data developers, and data engineers will reach nearly 700,000 openings by 2020.**

*LinkedIn  **Forbes

There is a strong demand for managers in the field of data science, particularly those with graduate-level education and advanced skills. Analysts estimate that the U.S. alone faces a 1.5 million shortage of managers with the skills to understand and make decisions based on analysis of big data.*

Companies who have hired UND graduates in the past, and are also looking for data scientists, include:

- Amazon
- Apple
- Target
- IBM
- Thompson Reuters
- The MITRE Corporation

*Wired.com