Take your problem-solving skills a step further by using the theoretical and practical applications of technology to shape the future.

The fastest route from idea to application in technology today requires expertise in both abstract and practical thinking. With this graduate program, you’ll gain a well-rounded skillset that can help you lead the way in overcoming challenges and creating new computing innovations.

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

### Why earn a master's degree in computer science?

**Application Deadlines**

- **Fall:** Aug. 1  
- **Spring:** Dec. 1

Understanding both the abstract and practical applications of technology will help you to develop the computer science skills that are sought after in today's fast-paced world. You’ll better understand underlying theoretical issues along with implementation factors, while using the latest software platforms and systems.

Through this master's degree in computer science, you'll take in a holistic view of the latest innovations and trends with studies in:

- Advanced modeling and simulation  
- Artificial intelligence  
- Algorithms  
- Database systems  
- Software engineering and design  
- Advanced computer graphics

### On-Campus or Online Master's in Computer Science

- Advance your technology skills with a curriculum that encourages a formal, abstract, theoretical and practical approach to the study of computer science.  
- Develop creative thinking, problem solving and research skills, along with specialized expertise.  
- Gain access to on-campus computing power. We have two computer labs, a set of diverse servers and a high-performance computing (HPC) system.  
- UND built its supercomputer with the HPE DL360 and Apollo 6500 Gen10 systems. It's an ideal end-to-end platform to support deep learning while delivering high-performance, versatility and security for workload management.  
- UND is a leader in big data expertise. We are the lead institution in a multi-university project for digital agriculture, funded by the National Science Foundation. And we co-lead another NSF project to determine industry and academic computational needs in the Midwest.  
- Study at a Carnegie Doctoral Research Institution ranked #151 by the NSF. Students are an integral part of UND research.
What can I do with a master's in computer science?

22%  Anticipated job growth for computer and information research scientists through 2030

110K  Average salary for a software developer
- U.S. Bureau of Labor Statistics

UND computer science graduates have gone on to careers all over the world in all types of industries, including high-tech, defense, aviation, financial and more. Our graduates are employed by:

- Apple
- Digi-Key
- Fast Enterprises
- Google
- HGST
- Microsoft
- Honeywell
- Rockwell-Collins
- Blue Cross Blue Shield
- Goldman Sachs
- Deutsche Bank
- NAS
- Unisys
- Mayo Clinic

Jobs with a Master's Degree in Computer Science

With a master's in computer science, you can be competitive in mid- to high-level opportunities related to computers systems and applications, such as:

- Software Engineer
- Systems Engineer
- Cybersecurity Specialist
- Systems Integration Engineer
- Computer Scientist
- Network Analyst

Best Computer Science Degree

Our computer science program consistently ranks among the best for educational quality, affordability, and career outcomes.

Explore More Options

Check out the faculty you'll work with at UND or discover additional education opportunities.

- Department of Computer Science
- Explore Similar Degrees

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