MASTER OF SCIENCE IN COMPUTER SCIENCE

UNLIMITED POSSIBILITIES

INSPIRATION          INNOVATION          GLOBAL COMPETENCE
This program is designed to empower students with extensive knowledge and practical experience to analyze, design, procure, manage, and implement cutting-edge technologies.

For a M.S. degree in Computer Science, students are required to complete 30 semester credit hours: 24 credits of core courses, 6 credits of concentrations courses.

Students who do not have a background in computer science are required to take a short series of courses to provide the necessary background knowledge for graduate study in computer science.

**LEVELING COURSES**

- **COMP 1412**
  Introduction to CS II (Java)
- **COMP 2313**
  Data Structures
- **COMP 3322**
  Software Engineering
- **COMP 3324**
  Computer Networks

**CORE COURSES (24 CREDITS)**

- **COMP 5327**
  Advanced Algorithms
- **COMP 5331**
  Advanced Cloud Computing
- **COMP 5329**
  Advanced Operating Systems
- **COMP 5322**
  Advanced Software Engineering
- **COMP 5356**
  Advanced Software Project Management
- **COMP 5334**
  Advanced Computer & Network Security
- **COMP 5353**
  Advanced Data Mining
- **COMP 5393**
  Capstone project
CONCENTRATIONS

NETWORKING

COMP 5351
Advanced Network Administration

COMP 5352
Advanced Internetworking Technology

SOFTWARE ENGINEERING

COMP 5339
Advanced Software Analysis & Design

COMP 5344
Software Testing, Verification and Validation

CYBERSECURITY

COMP 5333
Cyber Crime Investigation

COMP 5336
Computer Forensics

DATA ANALYTICS

COMP 5357
Machine Learning

COMP 5355
Data Analysis
AREAS OF STUDY

The master of science in computer science program at North American University focuses on Cyber Security, Data Analytics, Networking and Software Engineering.

DATA ANALYTICS

The Master of Science in Data Analytics program is designed to provide students with a comprehensive foundation for applying statistical methods to solve real-world problems.

One goal of this program is to prepare students for careers in data analytics with a broad knowledge of the application of statistical tools, techniques, and methods as well as the ability to conduct in-depth analysis, synthesis, and evaluation.

Another goal is to prepare students for careers with analytical knowledge, the ability to apply analytical tools, techniques, methods, and the ability to design, develop, implement, program, and maintain data.

CYBER SECURITY

Every day seems to bring another headline about a major computer security violation, whether at a corporation, government agency, or communications system. From online banking to electronic commerce to transportation operations, our world increasingly depends on a cyber infrastructure. Hardening these diverse software and control systems against malicious users has become a national priority.

To achieve this goal, there is a broad need for computer experts with the deep technical training and expertise to protect networks. To meet the demand, we offer our master’s students in the Computer Science department the opportunity to concentrate in cyber security.

The concentration courses focus on technical issues related to safe software, languages, and architectures, as well as broader societal issues of privacy and legal ramifications.
NETWORKING

Networking courses establish with a broad foundation in information technology (IT), an in-depth understanding of computer data communication and modern networking.

The courses provide a comprehensive understanding of network design and implementation, network performance analysis and management, network security, and the latest networking technology.

SOFTWARE ENGINEERING

Software Engineering courses focus on applying the principles of engineering to the software development field.

It is a systematic, disciplined approach to the design, implementation, test, maintenance, and reengineering of the software. Software Engineering makes profound changes to every aspect of human life.
HOW TO APPLY

Please apply online at www.na.edu and submit the following items:

**NO GRE REQUIRED**

- A non-refundable application fee (payment available online)
- Official Bachelor degree transcript (non-U.S. transcripts must be evaluated by an accredited agency)
- Letter of intent
- Curriculum vitae
- Two letters of recommendation
- TOEFL score or evidence of English language proficiency

**FULL PROGRAM TUITION***

<table>
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<tr>
<th>Status</th>
<th>Tuition</th>
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<tbody>
<tr>
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*Semester fees will apply

Financial aid available for U.S. students who qualify

FAFSA CODE : 041795
TOEFL CODE : 7304

For more information please email admissions@na.edu or call 832 230 5555 to speak with a graduate advisor.