NORTH AMERICAN UNIVERSITY

MASTER OF SCIENCE IN COMPUTER SCIENCE

UNLIMITED POSSIBILITIES

INSPIRATION | INNOVATION | GLOBAL COMPETENCE

REQUIREMENTS

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

Complete your degree in 30 credit hours (10 courses)

Full online and face-to-face options are available

GRE not required

International students are eligible for 12 months Optional Practical Training (OPT) as well as a 24-month STEM OPT extension in addition to the 12 months

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.

Houston ranked the #1 city for recent college graduates

Ctippie. (2017). Houston Ranked No. 1 City For New Graduates. Houston Newcomers Guide. https://houstonnewcomer-guides.com/houston-ranked-no-1-city-for-new-graduates/
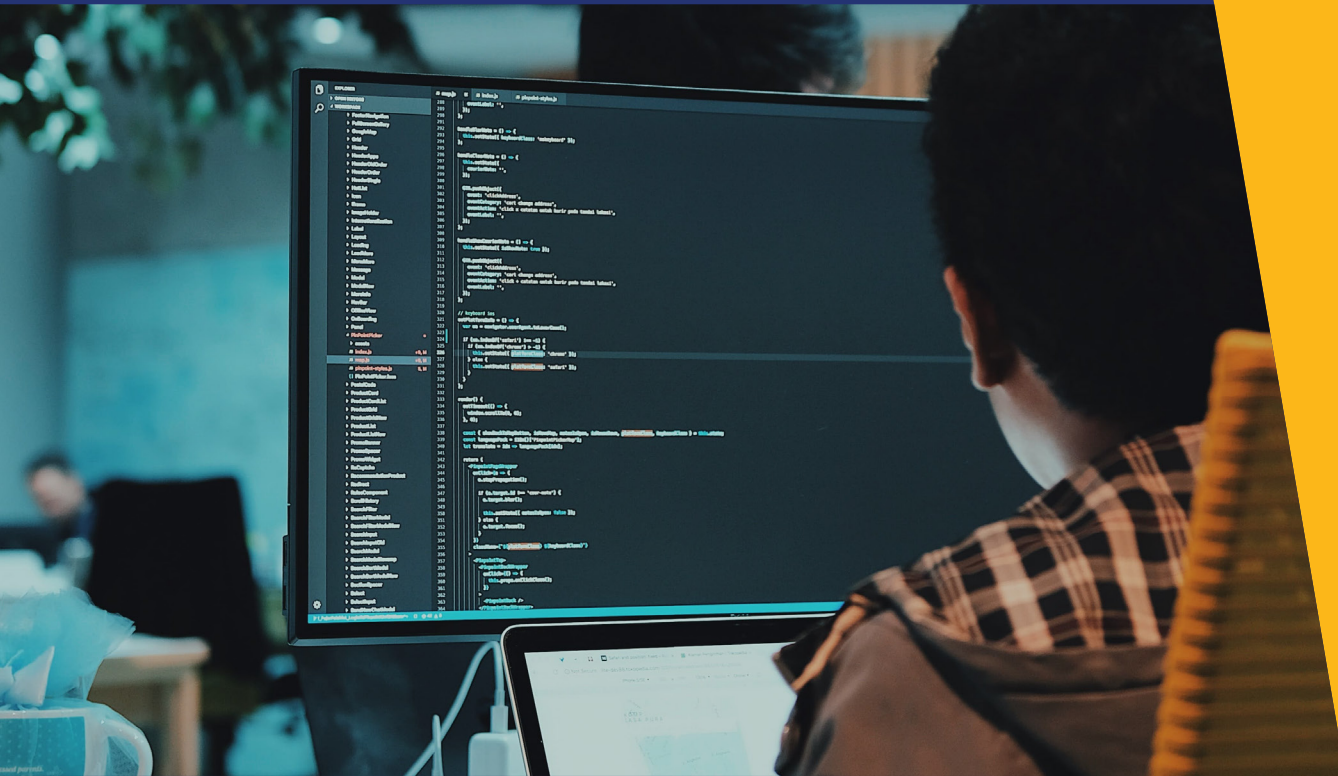
CYBER SECURITY

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 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 proof of English language proficiency

HOUSTON, TEXAS

NORTH AMERICAN UNIVERSITY

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www.na.edu

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$11,498

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$20,895

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FAFSA CODE: #041795

Financial Aid available for U.S. students who qualify.

***NO** semester fees