

Norfolk State University

Cybersecurity

FACT SHEET



About Norfolk State University

Norfolk State University, founded in 1935, is a historically black institution of higher education located in Norfolk, Virginia. NSU is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, bachelor's, master's and doctoral degrees. The undergraduate computer science program is accredited by ABET.

Cybersecurity At NSU

NSU is designated as a National Security Agency/Department of Homeland Security Center of Academic Excellence in Information Assurance Education. The goal of these programs is to reduce vulnerability in our national information infrastructure by promoting higher education and research in Information Assurance (IA) and producing a growing number of professionals with IA expertise in various disciplines. NSU's Center, the Information Assurance – Research, Education, and Development Institute (IA-REDI), is housed in the College of Science, Engineering, and Technology within the Department of Computer Science.

Degree Programs

BS in Computer Science, Information Assurance Emphasis
MS in Computer Science, Information Assurance Emphasis
MS in Cybersecurity (Online Starting Fall 2015)

Cybersecurity Graduate Courses

CYS 573 Network Fundamentals
CYS 564 Secure Operating Systems
CYS 672 Computer and Network Forensics
CYS 688 Human Aspects of Cybersecurity
CYS 697 Ethical Hacking and Penetration Testing
CYS 721 Database Security
CYS 755 Healthcare Information Security
CYS 765 Advanced Topics in Cybersecurity
CYS 795 Cybersecurity Capstone Project

MS Cybersecurity degree graduates at Norfolk State University will have:

- Knowledge of basic security terminology, challenges and solutions
- Understanding of the importance of security policies as a complement to security technology
- Understanding of the fundamentals of digital forensics for both computers and mobile devices and the use of popular digital forensic software and tools
- Experience in ethical hacking techniques to assess the security of enterprise systems

- Understanding of the human aspects of cybersecurity including ethical behavior, legal issues and the psychology of computer users and computer criminals
- Ability to conduct in-depth research into a specific cybersecurity topic, including finding and integrating relevant research results of others

Internships Sites and Employers

Battelle
Booz Allen Hamilton
Defense Information Systems Agency
Department of Homeland Security
Department of the NAVY
Lawrence Livermore National Laboratory
Lockheed Martin
National Security Agency
Northrop Grumman
Sandia National Laboratories
Savannah River National Laboratory
SPAWAR Systems Center

Potential Salaries

BS graduates – low \$60,000s
MS graduates – low \$80,000s

Recent External Funding

- DoD IA Scholarship Program - \$350K
- ARO Cloud Computing and Big Data Infrastructure - \$498K
- ARO Assured Information Sharing - \$487K
- NSF Scholarships for Service - \$1.2M
- DoE Massie Chair in IA - \$1.25M
- DoE K-20 Cybersecurity Workforce Development Pipeline Project - \$25M

K-12 Activities

- Massie Emerging Young Leaders Community Summit with Cybersecurity focus - middle school students
- Cybersecurity Club at I.C. Norcom High School, Portsmouth, VA
- Summer Cybersecurity Camps - high school students
- Workshops for high school teachers and students



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