

## Responsibilities

- Analyze and establish security requirements for your systems/networks
- Defend systems against unauthorized access, modification and/or destruction
- Configure and support security tools such as firewalls, anti-virus software, patch management systems, etc.
- Define access privileges, control structures and resources
- Perform vulnerability testing, risk analyses and security assessments
- Identify abnormalities and report violations
- Oversee and monitor routine security administration
- Develop and update business continuity and disaster recovery protocols
- Train fellow employees in security awareness, protocols and procedures
- Design and conduct security audits to ensure operational security
- Respond immediately to security incidents and provide post-incident analysis
- Research and recommend security upgrades
- Provide technical advice to colleagues

## Computer & Information Sciences Department

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# Computer & Information Sciences

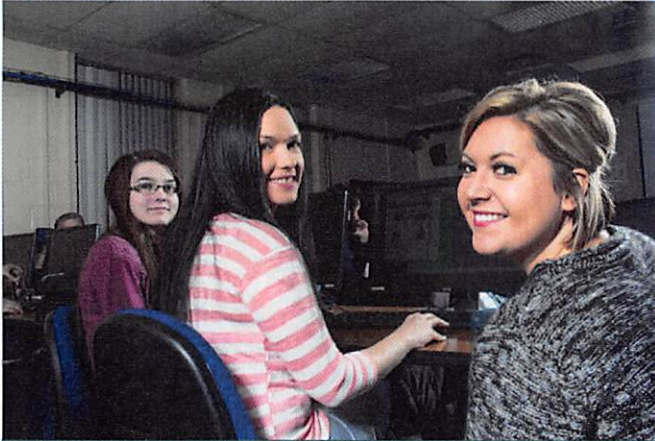
## Information Assurance Program



**NORTHEAST STATE**

*We're here to get you there*





*"There are only three groups of people in the U.S.: those whose identities have been stolen, those who do not know their identities have been compromised, and the identity theft thieves. My advice: put a freeze on your credit now." Joy Gumz*

## Six Reasons Why Every Student Should Consider a Career in Cybersecurity

1. **High Demand** - the U.S. Department of Defense and the FBI alone would like to recruit 6,000 people with cybersecurity skills by the end of 2016. Technology alone is not enough to prevent, detect, respond to and recover from cybersecurity incidents; there is also a critical need for skilled people. Demand is high and exceeds supply.
2. **High Pay** - The average income reported by cybersecurity professionals in the United States is three times the national median for full-time workers.
3. **Highly Skilled** - Cybersecurity is interesting, challenging, technology-focused work.
4. **Highly Dynamic** - Because information technology is in a constant state of change.
5. **Highly Transferable** - Many jobs are tied to specific locations, but a career in cybersecurity is highly portable.
6. **Higher Purpose** - As a rule, cybersecurity professionals are not likely to be famous. On the contrary, they quietly provide committed, faithful and honorable service to their organizations, countries and society as a whole.

Source: <https://securityintelligence.com/six-reasons-why-every-student-should-consider-a-career-in-cybersecurity/>

### Typical Program of Study

#### **Fall**

EDUC 1030 College and Lifelong Learning  
 CPET 1500 Introduction to Computer Networking  
 INFS 1010 Computer Applications  
 ENGL 1010 Composition I  
 MATH 1530 Probability and Statistics  
 CPET 2530 Information Security Fundamentals

#### **Spring**

CISP 1610 Visual Basic  
 CISP 1150 Essentials of Web Development  
 CISP 1290 Microcomputer Operating Systems  
 CPET 2610 Microsoft Desktop Operating Systems  
 CISP 2560 Enterprise Security Management

#### **Fall**

CISP 2240 Fundamentals of UNIX/Linux  
 SPCH 2300 Public Speaking  
 PHYS 1030 Introduction to Physics  
 or  
 PSCI 1010 Physical Science I

### **Fall (Cont.)**

CISP 2810 Computer Forensics

### **Spring**

Elective Humanities Elective  
 Elective Behavioral/Social Science  
 CISP 2580 Network Security  
 CISP 2570 Secure Electronic Commerce  
 CISP 2980 Computer Science Capstone

Leads to possible Certifications:

CompTIA A+ Exam  
 CompTIA Network+ Exam  
 CompTIA Security+ Exam  
 Select Microsoft Certifications

## Contact Us

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The Association of Technology,  
 Management, and Applied Engineering

Northeast State is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award the associate degree. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Northeast State.