Ability to conduct risk and vulnerability assessments of existing and proposed networked systems.
Demonstrate an understanding of cyber defense and attack methods.
Show how ethical issues impact decision making in the cybersecurity area.
Demonstrate techniques to design a secure network.
Troubleshoot an information security system.

Information Security Analyst; Cybersecurity Engineer; Network Security Engineer; Vulnerability Analyst/Penetration Tester; Cybersecurity Consultant; Security Architect; Security Auditor; Security Specialist; Computer Forensics Analyst; Ethical Hacker

**Marketable Skills**
- Interacting with Computers
- Gathering Information
- Identifying Objects, Actions, and Events
- Ethics
- Evaluating Information
- Analyzing Data or Information
- Identifying underlying principles, reasons, or facts
- Implement security measures
- Collaborate with others to resolve issues

**Program Outcomes**
- Ability to conduct risk and vulnerability assessments of existing and proposed networked systems.
- Demonstrate an understanding of cyber defense and attack methods.
- Show how ethical issues impact decision making in the cybersecurity area.
- Demonstrate techniques to design a secure network.
- Troubleshoot an information security system.

**High School Endorsements**
Business and Industry

**Expected Salary**
*Texas wage data:* workers on average earn $110,680; 10% of workers earn $67,660 or less; 10% of workers earn $165,070 or more.

**Additional Education Opportunities**
Students may continue their education through a Bachelor of Arts in Applied Science degree, in addition to various industry certifications.

**Career Opportunities**
Information Security Analyst; Cybersecurity Engineer; Network Security Engineer; Vulnerability Analyst/Penetration Tester; Cybersecurity Consultant; Security Architect; Security Auditor; Security Specialist; Computer Forensics Analyst; Ethical Hacker