

CYBERSECURITY

DEPARTMENT OF COMPUTER SCIENCE

COLLEGE OF HEALTH, ENGINEERING AND SCIENCE



WHAT CAN I DO WITH A CYBERSECURITY DEGREE?

As global businesses and society continue to revolve around highly complex computing and information technology systems, cybersecurity workloads and attacks are increasing faster than professionals can meet the demand. The need for cybersecurity is of paramount importance for protecting critical infrastructure and computer networks from cyber-attacks by foreign nations, criminal groups, hackers and terrorist organizations. A degree in cybersecurity from Slippery Rock University prepares students for careers in a wide array of fields including information security, network management, secure software development, software assurance and security governance.

Graduates will be able to pursue a variety of career options, including:

- Computer system analysts
- Information security analysts
- Computer programmers
- Software developers
- Computer network specialists
- User support specialists

CYBERSECURITY AT SRU

The cybersecurity curriculum facilitates and prepares students with all-inclusive knowledge of advanced, practical and secure coding practices for software and data applications in cybersecurity domain. Students will be exposed to a comprehensive coverage of diverse and interdisciplinary topics including: network administration, cryptography, software assurance, secure coding, security tools, security analysis, project management, incident response, automation, data science and data analytics, scripting, post-mortem deep forensics, ethical reasoning, malware behavior and analysis.

WHY CHOOSE CYBERSECURITY AT SRU?

- 1. Multidisciplinary:** Our cybersecurity program encompasses classes within specific academic departments as well as liberal studies curriculum.
- 2. Unique:** SRU is one of the few educational institutions in the nation offering a cybersecurity degree program specializing in secure software development or security governance which ensures that students know how to write robust, secure software and to implement practical and constructive coding strategies that aid in maintaining the confidentiality, integrity and availability of the software and data.
- 3. Projects and research:** Students have numerous opportunities to collaborate with faculty in undergraduate research. The Center for Cybersecurity and Advanced Computing at SRU facilitates many collaborative research opportunities focusing on cybersecurity, safety, ethics, social engineering and emotional intelligence models and protocols that all students should know and be able to apply independently.
- 4. Support and guidance:** Every undergraduate is assigned an academic adviser to guide them through their program of study and help them make decisions about educational and career goals.
- 5. Resources:** Through the highly advanced computing cluster, specialized security equipment and with expert guidance from industry experts, SRU's cybersecurity program prepares undergraduates for careers in the field of cybersecurity, its sub-fields and related occupations.

MAJORS

Cybersecurity (BS) with concentrations in:

- Secure Software Development
- Security Governance

MINOR

- Cybersecurity

CLUBS AND ORGANIZATIONS

- Cyberspace Club

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