

# Cybersecurity

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## About the Major

This degree will enable you to address the security challenges and risks that all industries encounter daily. Cybersecurity is a multidisciplinary area: it is a combination of information technology, computing, and engineering. This program will provide a solid, comprehensive background in the related topics of cybersecurity engineering and their applications. With more companies in all industries increasingly relying on technology for their operations, cybersecurity is a rapidly growing field.

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## Marketable Skills and Abilities this Major Develops

- Critical thinking and analysis
  - Problem solving and evaluation
  - Strong attention to detail
  - Ability to work across multiple platforms
  - Logical reasoning and troubleshooting
  - Certified ethical hacking
  - Project organization, coordination, and management
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## Relevant Fields

- Risk Management
- Software Development
- Government
- Computer Forensics
- Network Security
- Security Consultation
- Malware Analysis
- Program Management

## Occupational Titles/Careers with Bachelor's Degree

- Security Analyst
- Cybercrime Investigator
- Security Software Developer
- Cryptographer
- Penetration Tester
- Source Code Auditor
- Security Architect
- Forensic Expert

## Sample Coursework

- Computing
  - Web Programming
  - Database Systems
  - Cryptography
  - Network Security
  - Secure Hardware
  - Secure Software
  - Intelligence and National Security
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## Career Opportunities and Job Outlook

According to The U.S. Bureau of Labor Statistics' Information Security Analyst's Outlook, cybersecurity jobs are among the fastest-growing career areas nationally with an increase of 32% new jobs in this career by 2028. Cybersecurity impacts all industries who rely on technology for their operations.

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## Salary Estimates

According to The U.S. Bureau of Labor Statistics, the median annual wage for information security analysts was \$103,590 in May 2020. Cybersecurity salaries typically range from \$85,000 to \$130,000 per year, depending on the level of your experience, specific job title, expertise, employer, and location.

(This section is intended for informational purposes, not prediction of actual salary.)

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## Advanced Degrees

- Security Architecture
- Digital Forensics
- Vulnerability Research
- Computer Science
- Computer Engineering
- Information Technology

## Professional Associations

- [Information Security System Operations Association International](#)
- [Association of Information Technology Professionals \(AITP\)](#)
- [Association for Information Science and Technology \(ASIS&T\)](#)
- [International Association of Computer Science and Information Technology \(IACSIT\)](#)
- [Association for Women in Computing \(AWC\)](#)
- [International Information Systems Security Certification Consortium](#)