



MARYVILLE
UNIVERSITY

Introducing Maryville University's
**CYBER SECURITY
ONLINE PROGRAMS**

Bachelor of Science in Cyber Security &
Master of Science in Cyber Security

The cyber security industry is calling for more experts. And you should be all ears.

Data drives nearly every sector of the global economy — and it's never been more vulnerable. One of the world's leading insurance companies, Lloyd's, estimates that cyberattacks cost companies \$400 billion per year. Companies and governments are reacting by ballooning their cyber security budgets, but we still face a worldwide shortage of experts. You can change that.

Each of our online cyber security programs can help you build the skills to excel in the industry, whether you're a newcomer or seasoned veteran. By choosing Maryville, you can learn from experts who bring knowledge from *Fortune* 500 companies and top agencies. They provide a direct link between you and the field because they're still active. Since our degrees are housed within the John E. Simon School of Business, you can develop a keen business sense, too.

Earn a credential that will hold long-term value in the marketplace, and align your career with the upward trajectory of cyber security.

Maryville Cyber Security Online at a glance

- Access Maryville University's Cyber Fusion Center, an innovative cyber security operations facility that provides real-time information security services for charities, schools, and nonprofit organizations
- Choose from two degrees: online Bachelor of Science in Cyber Security and online Master of Science in Cyber Security
- Complete your coursework anytime, from any device
- Access Career Services that can help you find internship opportunities
- Learn using case studies that come from the latest headlines, not hypothesis
- Use Maryville's Virtual Lab as a safe, protected training ground for your technical skills
- Benefit from a faculty of active industry professionals who have dedicated their careers to cyber security, not publishing
- Prepare to sit for certification exams while you complete your degree: Certified Ethical Hacker, Certified Information Systems Security Professional, CompTIA Security+, and EnCase Certified Examiner

READY TO GET STARTED OR HAVE QUESTIONS?

Call **(877) 813-8671** to speak with an enrollment advisor today.

MARYVILLE UNIVERSITY



Curriculum

Graduate in as few as 2.5 years.
(after general education courses)

Online Bachelor of Science in Cyber Security

To work in cyber security, you need considerable technical skills and business knowledge. The great part is, you can build them both here through the John E. Simon School of Business. Other bachelor's degrees are stepping stones, but ours is designed to have you workforce ready regardless of your prior experience. Our unique course delivery through Maryville's Virtual Lab doubles as a training ground, so you can put your skills to the test before you enter the field.

Not all bachelors' programs give you the chance to specialize your education like we do. Choose from 3 cyber security tracks:

- **Offensive track** – Explore a proactive approach to security measures using ethical hacking. Keep threats from becoming attacks.
- **Defensive track** – Examine the industry's best reactive tactics. Eliminate vulnerabilities and keep defenses strong.
- **General track** – Mix offensive and defensive disciplines for a broad overview of cyber security.

Top 5 skills you can develop:

- Application Development
- Digital Forensics
- Ethical Hacking
- Malware Analysis
- Network and Wireless Security

Top 5 roles you can pursue:

- Information Technology Auditor
- Information Security Analyst
- Computing, Networking, or IT Security Consultant
- Information Assurance Engineer
- Information Security Manager

Required Courses (18 credits)

- ISYS 250 Business Processes and Systems
- ISYS 280 Critical Security Controls
- ISYS 307 Business and Databases
- ISYS 320 Application Development with Java
- ISYS 325 Operating Systems and Applications
- ISYS 491 Cyber Law, Policy, and Compliance

Cyber Security Defense Track

(12 credits — allows option to gain Graduate Certificate in Conflict Resolution)

- ISYS 480 Security Information & Event Management
- ISYS 481 Virtualization & Cloud Security
- ISYS 484 Digital Forensics
- ISYS 485 Incident Response & Malware Analysis

Cyber Security Offense Track

(12 credits)

- ISYS 470 Ethical Hacking
- ISYS 471 Advanced Ethical Hacking
- ISYS 474 Network & Wireless Security
- ISYS 475 Mobile Security

Cyber Security General Track

(12 credits)

- ISYS 470, ISYS 474, ISYS, 481 and ISYS 484

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Online Master of Science in Cyber Security

According to CNBC, there's a worldwide shortage of as many as 30,000 top-level cyber security professionals. "Top-level" is a key distinction because those are the jobs seeing rising salaries, better benefits, and loftier influence in the business arena. Our Master's in Cyber Security is designed to help you build the expert-level skills that are in high demand.

Whether you aspire to specialize your skills in areas such as cloud security and cyber forensic analysis, or expand your business knowledge, we can help. Our program's unique positioning within the John E. Simon School of Business is ideal for you to develop into a dual threat — a technical expert with leadership ability.

Top 5 skills you can develop:

- Advanced Pen Testing
- Cryptography and Network Security
- Designing Cloud Security
- Digital Forensics
- Cyber Defense

Top 5 roles you can pursue:

- Chief Information Security Officer
- Security Director, Computing/Networking/IT
- Network Architect
- Information Security Manager
- Security Engineer

Required Courses (30 credits):

- ISYS 600 Controls for Effective Cyber Defense
- ISYS 670 Pen Testing
- ISYS 671 Advanced Pen Testing
- ISYS 674 Cryptography and Network Security
- ISYS 680 Mobile Device Hacking and Forensics
- ISYS 681 Designing and Implementing Cloud Security
- ISYS 684 Forensic Examination and Analysis
- ISYS 685 Incident Handling and Breaches
- ISYS 691 Legal Aspects of Privacy and Compliance

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Admission Requirements — Online B.S. in Cyber Security

- GPA of 2.0 or higher on all college work
- High school transcripts are required if you hold fewer than 30 transferable credits*
- Maximum of 68 credit hours from a two-year college will be counted toward the completion of a bachelor's degree
- Last 30 credit hours of bachelor's degree must be taken at Maryville
- One half of major and minor (if required) must be taken at Maryville

*An AA degree satisfies Maryville University's general education requirements

Admission Requirements — Online M.S. in Cyber Security

- Four-year bachelor's degree from an accredited institution
- Official transcripts
- For international applicants, a TOEFL score of 563. Speaking sub-score of 23, writing sub-score of 20, reading and listening scores of 21, and a combined score of 85 or higher

Accreditation

Maryville University is accredited by the Higher Learning Commission. The John E. Simon School of Business is accredited by the Accreditation Council for Business Schools and Programs.



About Maryville University

Founded in 1872, Maryville University is a comprehensive and nationally ranked private institution with an enrollment of more than 6,400 students. Maryville offers more than 90 degrees at the undergraduate, master's, and doctoral levels to students from 50 states and 47 countries.

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