

**PROFESSIONAL  
ACHIEVEMENT AWARD**

# APPLIED CYBERSECURITY

*BLOCK THE BREACH  
AND PROTECT  
ALL USERS*

**Help defend organizations and users alike from cyber-attacks and other lingering risks using a strong set of information security practices, technologies, and applications.**

- Build a conceptual foundation in cybersecurity
- Learn key approaches that industries have taken in response to the latest threats
- Understand the installation of network security tools and proper assessment of network statuses
- Understand computer database security practices and how to use SQL Server

**Your journey starts here. Enroll now.**

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**UCR** | Extension  
Professional Studies

# PROFESSIONAL ACHIEVEMENT AWARD IN

# APPLIED CYBERSECURITY

“Supporting individuals in keeping pace with the changing requirements of the modern work environment is at our core. Collaboration, partnership, and community drive us to provide accessible, affordable education, and training for working adults. Whether you are an individual looking to advance your career, or an organizational leader interested in investing in your workforce, we are here for you.”

— Kasey Wilson, Ed.D.  
Director  
Professional Programs  
UCR Extension

## SECURE YOUR NETWORK AND YOUR CAREER

Threats to our personal accounts and data breaches are becoming all too common in our digital age. Companies, organizations, and governments alike are quickly recognizing the need for more security professionals to protect and maintain their system’s integrity. To accomplish this, though, more qualified individuals are needed. Get ahead on this rapidly growing job market by preparing yourself with the skills to find, address, dismantle, and repair network security risks.

Immerse yourself in an understanding of cybersecurity, from concepts and terms to Start by learning the basics of cybersecurity, including the concepts, terminology, and common approaches by analyzing current examples of cyber-attacks and how those were handled. Understand how to install various networks components like firewalls and VPN concentrators for network protection. Learn how to troubleshoot common security problems and use malware tools, data loss prevention, and other security methods. Discover the issues that threaten database security across industries and how to use SQL Server to encrypt data and connections. Use your new knowledge set to analyze real network infrastructure threats, identify the assets at risk, and devise an implementation plan. By priming your cybersecurity career with a solid foundation, you prepare yourself to handle today’s cyber-attacks and security threats and to adapt to tomorrow’s data breaches and users’ expectations.

### WHAT YOU’LL LEARN

- Essential and current concepts and issues in cybersecurity
- Methods to assess threats and responses using industry examples
- Network security tools available and proper installation of each
- Troubleshooting and report-reading techniques
- Common security issues facing companies and how to use SQL Server for data protection
- Application of lessons in a capstone project to demonstrate understanding of identification of threats to assets and critical systems, methods to counter those threats, and appropriate responses to a security breach

### WHO CAN BENEFIT

This program is designed for current and aspiring cybersecurity professionals. This includes IT professionals wanting to learn more about cybersecurity, professionals already in cybersecurity and wanting to advance their skillset, and those with an interest in cybersecurity. Individuals with some coding experience who want to learn more about a career in cybersecurity are also encouraged to apply.

### ADMISSION

Take individual courses or fulfill all of the requirements to earn your UCR Extension award. Whichever you choose, you will gain the personal power that comes through learning new skills. Be assured that you are receiving education that is backed by the UC tradition of excellence.

### HOW TO EARN THIS AWARD

Individuals must complete a total of 6 quarter units, with a grade of C or better.

FUNDAMENTALS OF CYBERSECURITY 1 UNIT

CYBERSECURITY TECHNOLOGY AND TOOLS 2 UNITS

SECURING DATABASES 1 UNIT

APPLIED CYBERSECURITY & CRISIS ANALYSIS  
2 UNITS

- This program can typically be completed within 3 months.

### PROGRAM INFORMATION

Prices, requirements and courses are subject to change. For the most up-to-date information:  
Phone: (951) 827-4105  
Email: [prodev@ucx.ucr.edu](mailto:prodev@ucx.ucr.edu)  
Website: [www.extension.ucr.edu](http://www.extension.ucr.edu)