



The program at the University of Arizona is 18 credits, delivered asynchronously online. The courses are listed below. Course substitutions must be approved by the college.

CYBV 500: Security Programming

Advances the concepts and principles of development of practical applications supporting cybersecurity and digital investigation activities created through Python programming. Students will build on programming fundamentals using Python elements, secure programming standards, and developing applications for cybersecurity.

CYBV 501: Principles of Cybersecurity

Advances the concepts and principles of cybersecurity across different disciplines, threats, and technologies. Students will examine cybersecurity attackers' techniques, skills, motives, and vulnerabilities within programming, operating systems, networks, data, and web interfaces.

CYBV 529: Cyber Law, Ethics, and Policy

Provides students with an advanced look at the ethical, legal, and policy issues that arise in the field of cyber and technology. Students will gain the knowledge to operate in the current cyber and technology landscape, and the tools to analyze and respond to issues in this complex and evolving landscape.

CYBV 626: Traffic Analysis

Examines the methods by which today's security protocols and their implementations are deemed secure and reliable. Students will examine and research methods for quantifying the level of protection provided by existing protocols, including formalized approaches to this type of assessment.

CYBV 660: Zero Trust Defensive Techniques

Explores the implementation of Zero Trust Architecture (ZTA) principles in a legacy network. Students will quantify the effectiveness as ZTA is incrementally implemented in design and architecture before addressing cloud security topics in data, platform, infrastructure, apps, operations, and risk & compliance.

CYBV 696: Special Topics

Aids cybersecurity educators in understanding concepts to develop materials for their students. Cybersecurity topics include foundational knowledge units, first principles, and risk management. Students will focus on instructional technologies, competitions, courseware, and integrating curriculum.

Tuition and Course Delivery

- All courses at University of Arizona are offered online in an asynchronous format.
- Faculty host office hours at scheduled times and will schedule meetings outside those hours as needed.
- Courses are offered in a 7W format during the Fall, Spring, and Summer Semesters.
- U of A provides monthly Community of Practice professional development and support sessions.
- Graduate tuition rates are currently \$750 per credit hour for all students.
- Application and program fees are additional

U of A Contact: Paul Wagner, paulewagner@arizona.edu