Applied Computing (Cybersecurity), BS

ASACOCBS

ASU is no longer accepting new students to this program. Students interested in cybersecurity should apply to the [Computer Science (Cybersecurity), BA](#) program.

Become grounded in computer science and skilled in risk assessment, analytics and information security. Hone your critical thinking and problem-solving skills by applying your cyber knowledge in industry and research settings.

Program description

The innovative cybersecurity concentration builds on the Bachelor of Science degree program in applied computing.

Students acquire the technical knowledge of how to secure networks and applications, an understanding of cybersecurity governance models and risk management fundamentals, methods of communicating complex risk issues, and solutions for the challenges of implementing cybersecurity controls within various organizational models. Leadership, critical thinking and effective communication are also emphasized.

Students gain experience with authentic cybersecurity organizations, protecting digital assets against compromise or theft.

The cybersecurity concentration prepares students for a continuing and progressive career in cybersecurity.

STEM-OPT for international students on F-1 visas

This program may be eligible for an Optional Practical Training extension for up to 24 months. This OPT work authorization period may help international students gain skills and experience in the U.S. Those interested in an OPT extension should [review ASU degrees that qualify for the STEM-OPT extension](#) at ASU's International Students and Scholars Center website.

The OPT extension only applies to students on an F-1 visa and does not apply to students completing a degree through ASU Online.

At a glance

- **College/school:** [New College of Interdisciplinary Arts and Sciences](#)
- **Location:** [West Valley](#) WUE

- **Second language requirement:** No
- **STEM-OPT extension eligible:** Yes
- **First required math course:** MAT 210 - Brief Calculus or MAT 251 Calculus for Life Sciences
- **Math intensity:** Moderate

Curriculum

[View 2024 - 2025 curriculum](#) | [View curriculum archives](#)

Concurrent program options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

Admission requirements

General university admission requirements:

All students are required to meet general university admission requirements.

[First-year](#) | [Transfer](#) | [International](#) | [Readmission](#)

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Transfer options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use [MyPath2ASU®](#) to outline a list of recommended courses to take prior to transfer.

ASU has [transfer partnerships](#) in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and they help students save time and money in their college journey.

Global opportunities

Global experience

With more than 300 [Global Education program opportunities](#) available to them, students in the applied computing cybersecurity concentration program are able to tailor their experience to their unique interests and skill sets. Students in these programs build communication skills, learn to adapt and persevere, and are exposed to research and internships across the world, increasing their professional network. Participation in study abroad programs provides students with the heightened cultural competency, and leadership and critical thinking skills that enhance their resumes and help them

stand out in a competitive career field. Whether in a foreign country, in the U.S. or online, students in the New College of Interdisciplinary Arts and Sciences can explore how their varied fields and interests interact in different settings around the world.

Career opportunities

This is an ideal degree for students interested in careers in cybersecurity. Opportunities are available both in the private sector and within governmental agencies (e.g., the FBI, U.S. Department of Homeland Security, the National Security Agency and the Department of Defense).

Graduates of the applied computing program with a concentration in cybersecurity are well prepared for graduate study as well as entry-level employment with businesses, nonprofits, government agencies and academic institutions. Cybersecurity-focused positions include:

- chief information security officer
- cyber risk analyst
- information security engineer
- network security engineer
- security operations center analyst

Contact information

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