

# CIT, INFORMATION TECHNOLOGY TECHNOLOGY CYBERSECURITY, BACHELOR OF APPLIED TECHNOLOGY



## Overview

The Bachelor of Applied Technology (BAT) in Information Technology with an emphasis on Cybersecurity is meticulously crafted to address the escalating complexity and volume of cyber threats in today's digital world. This program not only aims to furnish students with the theoretical underpinnings of cyber security principles but also ensures they acquire hands-on experience in cutting-edge practices and technologies.

The curriculum spans from basic IT fundamentals to sophisticated cybersecurity strategies, including ethical hacking, digital forensics, and encryption technologies. Given the program's comprehensive nature, students are uniquely prepared to navigate and mitigate the risks associated with cyber threats, making them invaluable assets to any organization in the digital age. The College plans to begin the BAT in Information Technology with an emphasis on Cybersecurity in fall 2024 pending approval from the Texas Higher Education Coordinating Board (THECB) and the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).

The cybersecurity domain offers a wide array of career paths due to the universal need for data protection and threat mitigation across various sectors. The program's graduates are primed for success in high-demand roles such as Security Operations Center (SOC) Analysts, who play a crucial role in protecting an organization's information systems and infrastructure from cyber threats; Network Security Engineers, who design secure network infrastructures; Information Security Managers, who oversee organizational security strategies; and Penetration Testers, who identify vulnerabilities before they can be exploited maliciously. The program's broad and in-depth coverage of cyber security concepts ensures that graduates can adapt to various roles, making significant contributions to protecting digital assets in industries ranging from finance and health care to government and beyond. The escalating number of cyber incidents underscores the critical need for skilled professionals, positioning graduates for rapid career advancement and leadership opportunities in cybersecurity.

## Earning Potential

The cybersecurity field not only offers a wide range of career opportunities but also promises substantial earning potential, reflective of the critical nature of the work and the skills required to perform it. As the volume and sophistication of cyber threats continue to grow, so does the demand for skilled professionals capable of countering these threats. This heightened demand directly translates to competitive compensation packages for cybersecurity professionals. The program's emphasis on current technologies and practices, coupled with preparation for key industry certifications, positions graduates to command higher salaries. Earnings vary based on geographic location, experience, and the specific sector of employment, but the trajectory for career growth and salary advancement in cybersecurity is among the most favorable of all IT disciplines.

## Campus

South Campus