

# CIT, ADVANCED INFORMATION TECHNOLOGY CYBERSECURITY SPECIALTY, OCCUPATIONAL CERTIFICATE



## Program Information

Are you passionate about the Internet? Are you fascinated by Web and Network security? If so, San Jacinto College's Computer Information Technology (CIT) Cybersecurity training can help you kick start a career in the network security field. This degree prepares students for entry-level security certifications such as Security+. It lays the ground work for higher level certifications. As an Information Technologist, you can help keep hackers, viruses, and terrorists from intruding and damaging computers and networks.

The San Jacinto College CIT curriculum:

- Is designed to provide students with an understanding of the principles and techniques of information technology;
- Prepares students to work in the network security field to help keep hackers, viruses, and terrorists from intruding and damaging computers; and
- Teaches students how to safeguard computer operating systems by teaching server support skills and designing and implementing security systems.

## Program Learning Outcomes

Students will be able to:

1. Utilize network transmission media across various network topologies using a variety of operating systems.
2. Develop a security plan implementing asset risk management.
3. Develop viable solutions to mitigate network security risks to protect assets.
4. Utilize appropriate tools to prevent security threats.
5. Implement and test firewall security system.
6. Deploy countermeasures to minimize the impact of a breach in network security.

## Additional Information

Due to variations in requirements at four-year colleges and universities, students desiring to pursue a bachelor's degree in computer science are strongly advised to consult the CIT Department Chair at San Jacinto

College and at the institution to which they wish to transfer to review the appropriate transfer degree plans to the designated university.

The CIT program is designed primarily for students seeking an Occupational Certificate, Certificate of Technology, or Associate of Applied Science (AAS) degree. The College recommends completion of the 21-semester credit hour CIT foundations Occupational Certificate before continuing into a Certificate of Technology or AAS degree. The classes in the core CIT Occupational Certificate will apply toward most of the other CIT Certificates of Technology and AAS degrees.

## Career Opportunities

Graduates who earn an AAS degree or Certificate of Technology in CIT Cybersecurity typically pursue careers as:

- Information Technology security officers,
- Network Operations Specialists,
- VPN Engineers, and
- Chief Security Officers.

For more information, students may contact South campus, 281-929-4603, or North campus, 281-998-6350, x7242.

## Campuses

North Campus

South Campus

San Jac Online