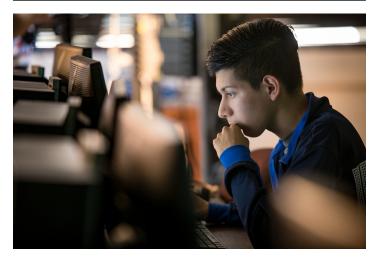# CIT, SYSTEMS ADMINISTRATION, CERTIFICATE OF TECHNOLOGY

Overview

Are you ready to take your IT skills to the next level and specialize in the management and support of advanced computer systems and networks? If so, San Jacinto College's Systems Administration Certificate of Technology is the ideal program for you. This certificate provides an extensive education in system and server administration, virtualization, security, and IT project management, preparing students for in-demand roles that support the backbone of today's technology-driven businesses.

The San Jacinto College Systems Administration program:

- Equips students with advanced skills in operating systems, server infrastructure, and network management, essential for effective systems administration.
- Emphasizes real-world applications of IT concepts, including configuring and maintaining servers, managing network infrastructure, and deploying virtualization solutions.
- Includes hands-on learning opportunities through a practicum, allowing students to apply their knowledge in professional settings and gain practical experience.
- Prepares students for industry-recognized certifications, such as CompTIA Server+, Microsoft Certified: Azure Administrator Associate, and Cisco CCNA, enhancing their employability.

Career Opportunities

The Systems Administration Certificate of Technology prepares graduates for careers in IT infrastructure and management, including:

- IT Support Specialist
- Systems Administrator
- Server Support Technician
- Network Server Administrator

Graduates will find opportunities across various industries that require robust IT infrastructure management, from small businesses to large enterprises, government agencies, and nonprofit organizations.

Earning Potential

IT Support Specialist (https://www.salary.com/research/salary/listing/it-support-specialist-salary/houston-tx/): $137,584 per year[1]

Systems Administrator (https://www.salary.com/research/salary/listing/systems-administrator-salary/houston-tx/): $116,340 per year[1]

Network Server Administrator (https://www.salary.com/research/salary/position/network-server-administrator-salary/houston-tx/): $111,289 per year[1]

[1] Source: salary.com (https://www.salary.com/), average salary for Houston, Tx as of May 1, 2025

For more information, students may contact Central Campus, 281-991-2608; North Campus, 281-998-6350, x7242; or South Campus, 281-922-3424.

Campuses

Central Campus

North Campus

South Campus

Information

The Systems Administration Certificate of Technology is designed for students seeking specialized skills to support, configure, and manage IT systems and server environments in today's complex technology landscape. This certificate can typically be completed in four semesters, and for students who already hold industry certifications such as CompTIA Server+, A+, or Network+, it may be possible to finish even sooner. It is generally recommended that students complete the 27-credit-hour Computer Information Technology (CIT) Foundations Certificate of Technology before enrolling in this program, as many of those courses provide essential groundwork and apply toward this certificate, as well as other CIT certificates, associate degrees, and bachelors degrees.

The Systems Administration Certificate of Technology equips students with advanced technical knowledge and hands-on experience essential for roles involving system and network administration, server management, and IT project coordination. This certificate places special emphasis on:

- Configuring and maintaining IT systems and servers to ensure reliable performance and scalability.
- Supporting network server infrastructure by learning to manage complex environments with a focus on security and optimization.
- Implementing virtualization technologies to maximize resource efficiency in data centers and IT environments.
- Gaining experience in IT project management and incident response, preparing students to manage and resolve real-world IT challenges effectively.
- Preparing for industry-recognized certifications, including CompTIA Server+, Microsoft Certified: Azure Administrator Associate, and Cisco CCNA.

The Systems Administration Certificate of Technology provides a direct path to a variety of IT careers. Upon completion, students may qualify for positions such as:

- IT Support Specialist
- Systems Administrator
- Server Support Technician
- Network Server Administrator

Graduates will find opportunities in industries that require advanced IT infrastructure and systems support, including healthcare, finance, government, and technology.

If your selected courses or program of study include clinical, practicum, externship, or cooperative learning components at external sites, you must meet all immunization or policy requirements outlined by the host facility. These requirements are determined by the external site's independent authority rather than by San Jacinto College. Failure to comply with these requirements can prevent you from completing your required external learning experiences and may delay graduation. Students seeking exemptions must address these directly with the external facility, as San Jacinto College does not process immunization exemptions.

By choosing the Systems Administration Certificate of Technology, you gain the advanced skills and hands-on training necessary to succeed in one of the most critical areas of IT. Whether you are looking to launch a new career or enhance your existing expertise, this program positions you for success in managing the systems that power modern organizations.

Plan of Study

4IT-SYSADM

First Year

First Term		Credits
ITSC 1325	Personal Computer Hardware	3
ITSC 1305	Introduction to PC Operating Systems	3
ITSC 1309	Integrated Software Applications I	3
ITNW 1325 or ITCC 1314	Fundamentals of Networking Technologies or CCNA 1: Introduction to Networks	3
ITSE 1329	Programming Logic and Design	3
	Credits	**15**

Second Term

		Credits
ITSY 1342	Information Technology Security	3
ITNW 1309	Fundamentals of Cloud Computing	3
ITNW 1313	Computer Virtualization	3
ITSE 1359	Introduction to Scripting Languages	3
	Credits	**12**

Second Year

First Term

		Credits
ITSC 1321	Intermediate PC Operating Systems	3
ITNW 1354	Implementing and Supporting Servers	3
	Credits	**6**

Second Term

ITNW 1353	Supporting Network Server Infrastructure	3
Select one of the following		3
ITSC 2364	Practicum - Computer and Information Sciences, General	

ITSY 2341	Security Management Practices	
ITSY 2342	Incident Response and Handling	
ITSC 1315	IT Project Management	
	Credits	**6**
	Total Credits	**39**

Capstone Experience: ITNW 1353 Supporting Network Server Infrastructure