CIT, BEGINNING NETWORK ADMINISTRATION CISCO SPECIALTY, OCCUPATIONAL CERTIFICATE

Program Information
Are you interested in the way things work? Have you always wanted to build your own computer? If so, San Jacinto College’s desktop support program can provide you with the skills to become a desktop and laptop computer hardware and software support expert. Our program teaches students to install, maintain, repair, replace, and upgrade computers to set you on course for a fulfilling career in the always booming tech industry.

The San Jacinto College’s network administration program:

• Provides students with the skills necessary to work as computer network service technicians, with an emphasis placed on installing and maintaining network;
• Is designed to provide the student with skills in desktop computer hardware and software support;
• Teaches students to install, maintain, repair, replace, and upgrade desktop computers; and
• Prepares students for industry certifications such as A+, Network+, Security+ and Microsoft Office Specialist (MOS), Microsoft Certified Professional (MCP), and Certified Cisco Network Associate (CCNA).

Career Opportunities
The Associate of Applied Science (AAS) in Desktop Support and Microsoft Networking is an excellent entry point into future studies leading to careers that include:

• Desktop Support Specialists,
• Helpdesk Supports,
• PC Technicians,
• MS Network Administrators,
• Network Technicians,
• Network Administrators, Server Administrators, and Network Operations Specialists.

Earning Potential
Network and Computer Systems Administrators median salary: $95,262 per year
Computer Network Support Specialist median salary: $70,660 per year

1 Source: texaswages.com (http://texaswages.com), Gulf Coast region, 2017

For more information, please contact Central campus, 281-476-1841; North campus, 281-998-6150, x7242; or South campus, 281-929-4603.

Campuses
North Campus
South Campus

Information
The Computer Information Technology program is designed primarily for students seeking an occupational certificate, certificate of technology, or Associate of Applied Science (AAS) degree. Students can expect to complete most certificates in less than one year and degrees in as little as two years. For those students who have already fulfilled general education requirements, it may be possible to finish degree coursework even sooner. It is generally recommended that students complete the 21 credit hour computer information technology (CIT) foundations occupational certificate before continuing into a certificate of technology or AAS degree. Most courses in this occupational certificate will apply toward the other CIT certificates and AAS degrees.

The CIT curriculum provides the graduate with the knowledge and in-demand applied technical skills needed to enter computer-related occupations in the business/industry job market. Certificates and AAS degrees are available in the following areas: Applications Programming, Desktop Support and Microsoft Network Administration, Information Technology Security, Simulation and Game Design, Network Administration Cisco, and Web Applications Development.

• The Applications Programming Specialty is for students interested in writing computer programs, both stand-alone and web-based, in languages such as C++ and Java. Emphasis is placed on solving business-related computer problems through programming techniques and procedures, using appropriate languages and software.
• In Desktop Support and Microsoft Network Administration, a student can choose between a track with emphasis on computer hardware and software support or one with focus on the installation and maintenance of networks. Students will be exposed to current tools and techniques for implementing solutions for customers in network environments.
• The Simulation and Game Design program is designed for students who are interested in advanced programming areas, as in simulations, game programming, program testing, or multimedia programming.
• In the Network Administration Cisco specialty, emphasis is on the design, implementation, and administration of local and wide area router networks.
• The Web application development program prepares students for entry-level positions in website design, development, and administration.

The CIT industry certification program is intended for students with industry experience in one or more of the following areas of study: beginning network administration, Cisco, and advanced information technology security. These certificates enable students to supplement their current job skills and obtain industry certifications, if desired. Each industry certificate consists of only the courses required to obtain a specific certification.

Note for transfer students: Due to variations in requirements at four year colleges and universities, students desiring a bachelor’s degree in Computer Science are strongly advised to consult a CIT Department Chair at San Jacinto College and at the institution to which they wish to transfer. This communication regarding transfer degree plans with both computer department heads will help to ensure the transition process is as smooth as possible. The Computer Science Field of Study located elsewhere in the catalog may also be appropriate.

**Computer Information Technology Industry Certification Program**

The CIT industry certification program is intended for students with industry experience in one or more of the following areas of study:

1. Beginning Network Administration Cisco and/or
2. Advanced Information Technology Security

These certificates enable students to supplement their current job skills and obtain industry certifications, if desired. Each industry certificate consists of only the courses required to obtain a specific certification.

**Plan of Study**

**All Campuses**

**6IT-BC**

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<th>Title</th>
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<td>CCNA 1: Introduction to Networks</td>
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<tr>
<td>ITCC 1440</td>
<td>CCNA 2: Routing and Switching Essentials</td>
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<td>ITCC 2412</td>
<td>CCNA 3: Scaling Networks</td>
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<td>ITCC 2413</td>
<td>CCNA 4: Connecting Networks</td>
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<td><strong>Total Credits</strong></td>
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**Capstone Experience:** ITCC 2413 CCNA 4: Connecting Networks