

## 2007-08 Catalog: Programs of Study

### Telecommunications Engineering Technology (Converged Networks) (2175)

#### Associate in Science or Associate in Applied Science

Telecommunication Engineering Technology (Converged Networks) provides a hands-on learning environment in combining voice, video and data networking systems. This program is designed primarily for information professionals with responsibility for design, implementation, or management of information systems. The program may also be appropriate for individuals in other professions, who wish to gain an understanding of IP telephony and video over IP networks. The program focuses on hands-on, lab-based learning and is not at the engineering or theory level. Topics covered include traditional telephony systems, voice and video over IP, codes, quality of service, unified messaging, home integration, and other current topics in converged networks.

**This selective access program** is designed to give a person with experience in general networking an in-depth understanding of converged networks. Students enrolling in this course should have a basic knowledge of network systems as gathered from work experience, college work, or self-learning, and an interest in exploring a growing and dynamic field. A technical certificate, **Network Communications (VoIP)**, can be completed while pursuing this degree.

#### Prerequisites

**CET 2759**, CCNA Certification, or one year of work experience in the field.

#### Internship

This program includes a required 60-hour internship.

#### Career Opportunities, Rapid Placement

FCCJ is the regional resource for employers in every type of technology. Our partnerships with Cisco Systems, Dell, IBM, Microsoft, Oracle and Sun Microsystems provide career connections. An FCCJ intranet site posts jobs targeting our students. Graduates are regularly employed by CSX, JEA, Blue Cross Blue Shield, the City of Jacksonville, Medtronic, Mayo Clinic and other regional employers including the government and military.

#### Annual Salaries

Annual earnings can range from \$40,000 and up.

#### Cost

Estimated cost of tuition is \$4,250 (tuition rated for Florida residents, as of 7/07). Contact the program manager for additional cost (textbooks, materials, fees).

#### Need More Information? Contact:

**Lance Wallace**, Advanced Technology Center, 904.598.5676

#### Curriculum

**Course Number and Title**

**Credits**

## General Education

	*Mathematics	3
	*Social and Behavioral Sciences	3
<b>ENC 1101</b>	English Composition I	3
	*Communications Category B	3
	*Humanities	3
	<b>Credit Hours</b>	<b>15</b>

## Required Professional Courses

<b>CET 2687</b>	Security+	3
<b>CET 2626</b>	Building Scalable Networks	3
<b>CET 2627</b>	Building Multilayer Switched Networks	3
<b>CET 2628</b>	Building Remote Access Networks	3
<b>CET 2636</b>	Home Integration	3
<b>CET 2660</b>	Managing Network Security	3
<b>CET 2665</b>	Advanced Firewall Administration	3
<b>CET 2481</b>	Designing and Building Wireless Networks	3
<b>CET 2682</b>	Voice over IP (VoIP)	3
<b>CET 2623</b>	Deploying Quality of Service	3
<b>CET 2675</b>	IP Telephony	3
<b>CET 2676</b>	Unified Messaging	3
<b>CET 1943</b>	Internship	3
	<b>Credit Hours</b>	<b>39</b>

## Professional Electives (minimum of 10 credit hours)

<b>LIS 1002</b>	Information Literacy (Online)	1
<b>CEN 2306</b>	Microsoft E-mail Administration	3
<b>CET 2186</b>	Computer Peripherals and Interfacing	3
<b>CET 2485</b>	Network+ Certification Review	2
<b>CET 1520</b>	Unix Fundamentals	3
<b>CET 2521</b>	Unix Administration I	3
<b>CET 2522</b>	Unix Administration II	3
<b>CET 2629</b>	Internet Troubleshooting Support	3
<b>CET 2662</b>	Techniques of Computer Hacking and Incident Handling	3
<b>CET 2752</b>	Network Administration	3
<b>CET 2796</b>	Securing Windows	3
<b>CET 2880</b>	Data Forensics I — Basic	3
<b>CET 1630</b>	Fiber, Voice and Data Cabling	3
<b>CET 1175</b>	Technical Support	3
<b>CET 2678</b>	IP Telephony Troubleshooting	3
<b>CET 2677</b>	Video over IP	3
<b>CET 2681</b>	Intrusion Detection Systems and Auditing	3
	<b>Credit Hours</b>	<b>10</b>

**Total Credit Hours** **64**

\*Refer to A.S./A.A.S. degree [General Education Requirements](#).

## Note

You have two options in this program: the associate in science (A.S.) degree, which can prepare you for employment or transfer to a state university, and the associate in applied science (A.A.S.) degree, which is intended primarily for students who want immediate employment after graduation. If you choose the A.S. degree you must take **MAC 1105**, **MGF 1106** or a higher level mathematics. The A.A.S. degree requires **MAT 1033** or higher. Please see an advisor to determine the option that is best for you.

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To request information, contact the Learner Support Center at [info@fccj.edu](mailto:info@fccj.edu) or 904.646.2300.

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