

## 2007-08 Catalog: Programs of Study

### Computer Engineering Technology (Computer Technician)

The Computer Technician subspecialty of the Computer Engineering Technology degree program emphasizes PC installation, configuration and troubleshooting both hardware and software. Core classes are in computer repair, operating systems and basic networking. The program also emphasizes hands-on instruction with industry-standard equipment. The Computer Technician subspecialty will prepare you for A+, Network+ and various Microsoft certification exams.

There are two options within this program:

- **Computer Engineering Technology (Computer Technician)** A.A.S. Degree
- **Microcomputer Repairer/Installer** Technical Certificate

Students may choose to pursue an A.A.S. degree and earn technical certificates while completing the requirements for the degree, or pursue one or more certificate programs to develop or upgrade their skills in a particular field. Contact an advisor or counselor to determine the career education path that is best for you.

Students may complete a degree in only one of the two specialty tracks, CCNP or Computer Technician. Students who wish to add a second area of specialization after completing a degree should pursue a technical certificate in that area.

Students who have completed the **Computer Electronics Technology** or the **Network Support Services** certificate programs may apply to have their coursework evaluated for college credit and applied to these programs.

### Computer Engineering Technology (Computer Technician) (A173)

#### Associate in Applied Science

If you are interested in computer installation, configuration and troubleshooting, and you want to be well prepared for certification exams in A+ and Network+, this A.A.S. degree program is for you. A variety of electives allows you to gain experience with other platforms, hardware and operating systems. Skills in customer support and problem solving in a business environment are also emphasized. The coursework emphasizes hands-on experience with state-of-the-art equipment.

The job outlook for individuals who graduate from this program of study is excellent. An internship is included to help you obtain the real-world experience many employers require. Students who have extensive work experience may apply to have their work evaluated to fulfill this requirement.

#### Internships

The program offers a 60-hour internship to help you obtain real-world experience. (Extensive work experience may fulfill this requirement.)

#### Career Opportunities, Rapid Placement

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, City of Jacksonville, Medtronic, Mayo Clinic and other regional employers including the government and military.

#### Expected Job Outlook and Earnings

The job outlook for individuals who graduate from this program is excellent. Growth is expected to be

much faster than average. Prospects are best for college graduates up to date with the latest skills, and some work experience is a plus.

## Certification and Licensing

The Computer Technician subspecialty will prepare you for A+, Network+ and various Microsoft certification exams.

## Application Procedure

To apply you must have an official high school transcript or a copy of your high school equivalency diploma. Students are admitted in the fall and spring terms. You must meet with the instructor or program director before enrolling in courses.

## Cost

Estimated cost of tuition is \$4,515 (for Florida residents, as of 7/07). Contact program manager for additional costs (books, materials, certification).

## Need More Information? Contact:

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

## Curriculum

Course Number and Title	Credits
<b>General Education</b>	
<b>ENC 1101</b> English Composition I	3
<b>MAC 1105</b> College Algebra	3
<i>or</i> <b>MAC 1140</b> Precalculus Algebra (4 cr.)	
*Humanities	3
*Social and Behavioral Science	3
*Communications Category B	3
<b>Credit Hours</b>	<b>15</b>
<b>Required Professional Courses</b>	
<b>CET 2186</b> Computer Peripherals and Interfacing	3
<b>CET 1514</b> Desktop Operating Systems	3
<b>CET 2752</b> Network Administration	3
<b>OST 1581</b> Professional Development in the Work Environment	3
<b>CET 1175</b> Technical Support	3
<b>CET 1742</b> Introduction to Network Configuration	3
<b>CET 2687</b> Security+	3
<b>CET 1630</b> Fiber, Voice and Data Cabling	3
<b>CET 1520</b> Unix Fundamentals	3
<b>CET 2179</b> A+ Certification Review	2
<b>CET 1943</b> Internship	3
<b>Credit Hours</b>	<b>32</b>
<b>Professional Electives (minimum 21 credit hours)</b>	
<b>LIS 1002</b> Information Literacy (online)	1
<b>CET 2485</b> Network+ Certification Review	2
<b>CET 2600</b> Cisco I	3
<b>CET 2610</b> Cisco II	3

<b>CET 2615</b>	Cisco III	3
<b>CET 2620</b>	Cisco IV	3
<b>CET 2626</b>	Building Scalable Networks	3
<b>CET 2628</b>	Building Remote Access Networks	3
<b>CET 2627</b>	Building Multilayer Switched Networks	3
<b>CET 2629</b>	Internetwork Troubleshooting Support	3
<b>**CGS 1100</b>	Microcomputer Applications for Business And Economics	3
<b>OST 1100</b>	Keyboarding/Introduction to Word Processing	3
<b>EET 1035</b>	Fundamentals of DC/AC Electricity	3
<b>CET 1114</b>	Digital Fundamentals	3
<b>CET 2662</b>	Techniques of Computer Hacking and Incident Handling	3
<b>CET 2521</b>	Unix Administration I	3
<b>CET 2522</b>	Unix Administration II	3
<b>CET 2796</b>	Securing Windows	3
<b>CET 2880</b>	Data Forensics I — Basic	3
<b>CET 2481</b>	Designing and Building Wireless Networks	3
<b>CET 2682</b>	Voice over IP (VoIP)	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 2623</b>	Deploying Quality of Service	3
<b>CET 2675</b>	IP Telephony	3
<b>CET 2676</b>	Unified Messaging	3
<b>ENC 2210</b>	Technical Report Writing	3
<b>CET 1936</b>	Technical Career Exploration	2
	<b>Credit Hours</b>	<b>21</b>
	<b>Total Credit Hours</b>	<b>68</b>

\*Refer to A.S./A.A.S. degree **General Education Requirements**.

\*\*CGS 1570 may be substituted for CGS 1100.

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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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