



# COMPUTER TECHNOLOGY

## NETWORK SECURITY & INFORMATION ASSURANCE

### PROGRAMS AVAILABLE

#### ASSOCIATE DEGREES

- Computer Technology
  - Network Security & Information Assurance
  - Programming

#### CERTIFICATES

- Computer Network Specialist
- Database and Programming (Oracle)
- Internetworking (CISCO)
- Network Engineering (MSCE)

**\$50,140**

median annual salary  
for computer network  
support specialists  
in S.C. in 2018

U.S. Bureau of Labor Statistics

CONTACT Latrice Singletary  
Computer Technology-Network Security  
Program Coordinator  
803.535.1391 | singletaryl@octech.edu



Learn about programming, information technology, mobile applications and network security while gaining the tools necessary for planning, design and implementation of computer programs in many different languages and microcomputer systems hardware, applications and network connectivity.

Students opting to concentrate in Programming receive instruction in the concepts, principles and techniques of software production with both procedural and object-oriented programming languages such as ALICE, ORACLE/SQL and JAVA. In addition, students take courses in web design that include topics such as HTML, ASP and JavaScript. Career opportunities include computer programmer and webmaster.

Network Security and Information Assurance involves the study of local and wide-area networking, network management, system administration, network security and Internet/intranet management. Career opportunities include system administrator, systems analyst, webmaster and network administrator.

**THE COMPUTER TECHNOLOGY DEGREE HAS TWO OPTIONS: PROGRAMMING AND NETWORK SECURITY AND ASSURANCE.**



Orangeburg-Calhoun Technical College  
3250 St. Matthews Road • Orangeburg, SC 29118

**ASSOCIATE DEGREE IN APPLIED SCIENCE  
COMPUTER TECHNOLOGY - NETWORK SECURITY & INFORMATION ASSURANCE**

ALSO AVAILABLE: ASSOCIATE DEGREE IN APPLIED SCIENCE  
IN COMPUTER TECHNOLOGY - PROGRAMMING

**72 SEMESTER HOURS**

		<u>Class</u>	<u>Lab</u>	<u>Credit</u>
<b>FALL I</b>				
MAT 101	Beginning Algebra (or higher)	3.0	0.0	3.0
CPT 104	Introduction to Information Technology	3.0	0.0	3.0
ENG 101	English Composition I	3.0	0.0	3.0
CPT 170	Microcomputer Applications	3.0	0.0	3.0
CPT 167	Introduction to Programming Logic	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
		15.0	0.0	15.0
<b>SPRING I</b>				
CPT 200	Database Design I	3.0	0.0	3.0
IST 245	Local Area Networks	3.0	0.0	3.0
SPC 205	Public Speaking	3.0	0.0	3.0
IST 263	Designing Windows Network Security	3.0	0.0	3.0
IST 252	LAN Systems Manager	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
		15.0	0.0	15.0
<b>SUMMER I</b>				
CPT 163	Introduction to Multimedia for Web Pages	3.0	0.0	3.0
IST 201	CISCO Internetworking Concepts	3.0	0.0	3.0
ECO 201	Economic Concepts (or ECO 210 or ECO 211)	3.0	0.0	3.0
	Humanities Elective	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
		12.0	0.0	12.0
<b>FALL II</b>				
CPT 209	Computer Systems Management	3.0	0.0	3.0
IST 202	CISCO Router Configuration	3.0	0.0	3.0
CPT 236	Introduction to JAVA Programming	3.0	0.0	3.0
CPT 247	UNIX Operating System	3.0	0.0	3.0
IST 260	Network Design	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
		15.0	0.0	15.0
<b>SPRING II</b>				
CPT 264	Systems & Procedures	3.0	0.0	3.0
IST 266	Internet & Firewall Security	3.0	0.0	3.0
CPT 268	Computer End-User Support	3.0	0.0	3.0
IST 290	Special Topics in Information Technology	3.0	0.0	3.0
IST 291	Fundamentals of Network Security I	<u>3.0</u>	<u>0.0</u>	<u>3.0</u>
		15.0	0.0	15.0

**NETWORK ENGINEERING (MSCE)\*  
(18 SEMESTER HOURS)**

<b>FALL</b>	
CPT 104	Intro to Info Technology
CPT 167	Intro to Programming Logic
<b>SPRING</b>	
IST 245	Local Area Networks
IST 263	Designing Windows Network Security
IST 252	LAN Systems Manager
<b>SUMMER</b>	
IST 201	CISCO Internetworking Concepts

*Database and Programming (ORACLE) and  
Internetworking (CISCO) certificates are also available.*

\*Federal Gainful Employment Project

**COMPUTER NETWORK SPECIALIST CERTIFICATE\*  
(27 SEMESTER HOURS)**

<b>SPRING I</b>	
IST 245	Local Area Networks
IST 263	Designing Windows Network Security
<b>SUMMER</b>	
IST 292	Fundamentals of Network Security II
IST 265	Designing the Windows Directory Service Infrastructure
<b>FALL</b>	
CPT 209	Computer Systems Management
CPT 247	UNIX Operating System
<b>SPRING II</b>	
IST 266	Internet & Firewall Security
CPT 268	Computer End-User Support
IST 291	Fundamentals of Network Security I