

# Computer Technology

## Associate in Computer Technology

**Entrance Requirements:**

Acceptable ASSET or COMPASS score

**Type of Program:**

Day, night or online

**Type of Degree:**

Associate degree

**Employment Opportunities:**

Insurance companies, hospitals, manufacturing firms, software development companies, other business and industry

- The Programming concentration trains students to plan, design and develop computer systems and programs using varied programming languages and databases with state-of-the-art equipment.
- The Network Systems Administration concentration provides students with the knowledge and skills to prepare for occupations in the field of desktop support and local area network administration. Students learn how to install, configure and maintain networking hardware including servers, workstations, switches, routers and firewalls.
- The Information Management & Systems concentration provides a 2+2 opportunity for students to earn a B.A. in Information Management & Systems at USC Upstate in the Department of Informatics.
- The Computer Information Systems concentration provides a 2+2 opportunity for students to earn a B.A. in Computer Information Systems at USC Upstate in the Department of Mathematics and Computer Science.
- Requires a minimum grade of "C" in all CPT and IST courses.
- Transfer credit for CPT 101 will only be allowed if completed within the last five years. Validation of skills by exemption exam (at a cost assessed by the college) is required for credits earned more than five years past.
- To graduate with an associate degree, candidates must meet the computer competency requirement by taking CPT 101 (EGR 130 may be substituted with departmental approval) or by passing the exemption exam at a cost to be assessed by the college.
- The Programming and Network Systems Administration concentrations are accredited by the Association of Collegiate Business Schools and Programs (ACBSP).

# Network Systems Administration concentration:

## Recommended Program Schedule

### *First Semester*

CPT	101	Introduction to Computers*	3.0
CPT	209	Computer Systems Management	3.0
CPT	257	Operating Systems	3.0
IST	220	Data Communications	3.0

### *Second Semester*

		College Transfer Level Math */**	3.0
ENG	101	English Composition I*	3.0
		or	
ENG	102	English Composition II*	
CPT	267	Technical Support Concepts	3.0
IST	241	Network Architecture I	3.0

### *Third Semester*

CPT	234	C Programming I	3.0
IST	190	Linux Essentials	3.0
IST	256	LAN Desktop Technologies	3.0
IST	257	LAN Network Server Technologies	3.0

### *Fourth Semester*

IST	201	Cisco Internetworking Concepts	3.0
IST	202	Cisco Router Configuration	3.0
IST	236	Mobile and Wireless Appliances	3.0
IST	191	Linux System Administration	3.0
SPC	205	Public Speaking*	3.0

### *Fifth Semester*

IST	203	Adv. Cisco Router Configuration	3.0
IST	204	Cisco Troubleshooting	3.0
IST	266	Internet and Firewall Security	3.0
IST	293	IT and Data Assurance I	3.0

### *Sixth Semester*

IST	260	Network Design	3.0
IST	272	Relational Database	3.0
		Humanities/Fine Arts Elective*	3.0
		Social Science Elective*	3.0

**Total credit hours** **75.0**

\* General Education course

\*\* Three credit hours of college transfer-level math from the following:

MAT	109	College Algebra with Modeling (preferred)	3.0
MAT	110	College Algebra	3.0
MAT	122	Finite College Mathematics	3.0

MAT 130	Elementary Calculus	3.0
MAT 132	Discrete Mathematics	3.0
MAT 140	Analytical Geometry & Calculus I	4.0

Social Science and Humanities/Fine Arts Electives-  
see advisor for approved list of courses, as documented  
with curriculum road maps.