

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).

Programming concentration:

Recommended Program Schedule

First Semester

CPT 101	Introduction to Computers*	3.0
CPT 113	Information Systems	3.0
ENG 101	English Composition I*	3.0
or		
ENG 102	English Composition II*	
	College Transfer-Level Math */**	3.0

Second Semester

CPT 257	Operating Systems	3.0
CPT 234	C Programming I	3.0
IST 222	Introduction to Web Page Production	3.0
CPT 209	Computer Systems Management	3.0

Third Semester

IST 227	Internet Operations & Management	3.0
CPT 264	Systems and Procedures	3.0
CPT 186	Visual Basic.Net I	3.0
IST 272	Relational Database	3.0
SPC 205	Public Speaking*	3.0

Fourth Semester

IST 278	Database Programming	3.0
IST 237	Intermediate Website Design	3.0
CPT 286	Visual Basic.Net II	3.0
CPT 238	Internet Scripting	3.0

Fifth Semester

CPT 236	Introduction to Java Programming	3.0
CPT 239	Active Server Pages	3.0
	Social Science Elective*	3.0
	CPT Elective***	3.0

Sixth Semester

CPT 275	Computer Tech Senior Project	3.0
	Humanities/Fine Arts Elective*	3.0
	CPT Elective***	3.0
	CPT 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	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	3.0

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

*** Approved departmental electives – Option A
(All courses required)

IST 220	Data Communications	3.0
CPT 237	Advanced JAVA Programming	3.0
CPT 240	Internet Scripting with Databases	
	or	
CPT 250	Java Certification Topics	3.0

*** Approved departmental electives – Option B
(All courses required)

IST 239	DHTML and JavaScript	3.0
IST 238	Advanced Tools for Website Design	3.0
IST 240	Multimedia for the Web	3.0