Computer Technology

Computer Technology Associate in Applied Science

Mission Statement

The Associate of Applied Science Computer Technology degree program prepares students for entry-level computer technology positions. Emphasis throughout the program's duration is placed on effective computer and communication skills.

Entrance Requirements:

Acceptable placement test score(s)

Type of Program:

Day, evening, or online

Employment Opportunities:

Technology services companies, internet service providers, insurance companies, hospitals, manufacturing firms, software development companies, and other business and industry.

- The Computer Technology Associate in Applied Science degree allows students to select one of the following concentrations:
 - Network Administration
 - Programming
 - Systems Administration
- Students will be awarded one degree in one of the three concentrations.
- The **Network Administration Concentration** trains students in computer technical support, router configuration and security, network systems administration, Voice over IP (VoIP), and network security.
- The **Programming Concentration** trains students to design and develop web and mobile applications using objectoriented languages and databases, including Microsoft C#, SQL, and ASP, Java, HTML5, CSS, JavaScript, and PHP.
- The **Systems Administration Concentration** trains students to install, configure, secure, and maintain computer hardware including data center servers and business workstations using Microsoft and Linux operating systems, as well as cloud technologies used for virtualization and data center management.
- This program requires a minimum grade of "C" in all CPT and IST courses.
- Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Many variables can affect this plan, and not every course is offered every semester. CPT Department students should see their academic advisor to map out their own personalized progression toward graduation.

Recommended Program Schedule for the Network Administration Concentration

First Semester							
CPT	113	Information Systems	3.0				
IST	220	Data Communications	3.0				
CPT	257	Operating Systems	3.0				
MAT	103	Quantitative Reasoning *	3.0				
		or					
MAT	109	College Algebra with Modeling *					
		or					
MAT	120	Probability and Statistics *					
		or higher college transferable math *					
ENG	101	English Composition I *	3.0				
Second Semester							
		2.0					
IST	201	Cisco Networking Concepts	3.0				
CPT	170	Microcomputer Applications	3.0				
CPT CPT	209 230	Computer Systems Management	3.0 3.0				
SPC	205	C# Programming I	3.0				
SEC	205	Public Speaking *	3.0				
SPC	209	or Interpersonal Communications *					
31 0	203	interpersonal communications					
Third Semester							
IST	202	Cisco Router Configuration	3.0				
IST	226	Internet Programming	3.0				
CPT	267	Technical Support Concepts	3.0				
IST	272	Relational Database	3.0				

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IST	t h Sen 203	nester Advanced Cisco Router Configuration	3.0
IST	295	Fundamentals of Voice Over IP (VoIP)	3.0
IST CPT	266 264	Internet and Firewall Security Systems and Procedures	3.0 3.0
CFI	204	Humanities/Fine Arts Elective *	3.0
	Seme		2.0
IST	204	Cisco Troubleshooting Technical Elective **	3.0 3.0
CPT	275	Computer Technology Senior Project	3.0
		Social Science Elective *	3.0
Total	credit	hours	69.0
		ducation course must choose one CPT/IST elective from one of the other two conce	entrations
Reco	mmen	ded Program Schedule for the Programming Concentration	
<i>First</i> CPT	Seme : 113	ster Information Systems	3.0
IST	220	Data Communications	3.0
CPT		Operating Systems	3.0
MAT	103	Quantitative Reasoning * or	3.0
MAT	109	College Algebra with Modeling * or	
MAT	120	Probability and Statistics * or higher college transferable math *	
ENG	101	English Composition I *	3.0
		mester	
IST CPT	226 230	Internet Programming C# Programming I	3.0 3.0
CPT		Computer Systems Management	3.0
CPT	170	Microcomputer Applications	3.0
SPC	205	Public Speaking * or	3.0
SPC	209	Interpersonal Communications *	
Third	l Seme		0.0
		Programming Elective #1 *** Programming Elective #2 ***	3.0 3.0
CPT	267	Technical Support Concepts	3.0
IST	272	Relational Database	3.0
Four	th Sen	nester Programming Elective #3 ***	3.0
		Advanced Programming Elective #1 ****	3.0
IST	266	Internet and Firewall Security	3.0
CPT	264	Systems and Procedures Humanities/Fine Arts Elective *	3.0 3.0
Fifth	Seme		
		Advanced Programming Elective #2 **** Technical Elective **	3.0 3.0
CPT	275	Computer Technology Senior Project	3.0
0	2,0	Social Science Elective *	3.0
Total	credit	hours	69.0
		ducation course must choose one CPT/IST elective from one of the other two conce	entration
*** P	Progran	nming Electives:	3.0
CPT	239	Introduction to JAVA Programming Active Server Pages	3.0
CPT	283	PHP Programming I	3.0
IST	239	DTML and JavaScript	3.0

	CPT CPT IST IST	231 237 235 278	C# Programming II Advanced JAVA Programming Handheld Computer Programming (Android) Database Programming	3.0 3.0 3.0 3.0		
Recommended Program Schedule for the Systems Administration Concentration						
	CPT IST CPT MAT	Semes 113 220 257 103	Information Systems Data Communications Operating Systems Quantitative Reasoning * or	3.0 3.0 3.0 3.0		
	MAT MAT ENG	109120101	College Algebra with Modeling * or Probability and Statistics * or higher college transferable math * English Composition I *	3.0		
	Second Semester					
	IST CPT CPT CPT SPC	190 170 209 230 205	Linux Essentials Microcomputer Applications Computer Systems Management C# Programming I Public Speaking * or	3.0 3.0 3.0 3.0 3.0		
	SPC	209	Interpersonal Communications *			
	Third IST IST CPT IST	257 226 267 272	ster LAN Network Server Technologies Internet Programming Technical Support Concepts Relational Database	3.0 3.0 3.0 3.0		
	Fourt IST IST IST CPT	t h Sem 258 191 266 264	LAN Directory Services Linux Systems Administration Internet and Firewall Security Systems and Procedures Humanities/Fine Arts Elective *	3.0 3.0 3.0 3.0 3.0		
	Fifth IST	Semes 198	Cloud Essentials Technical Elective ** Computer Technology Senior Project	3.0		

CPT 275

Total credit hours

**** Advanced Programming Electives:

Computer Technology Senior Project

Social Science Elective *

Visit www.gvltec.edu/gainful-employment for important information about the educational debt, earnings and graduation rates of students who attended programs.

3.0

3.0

69.0

^{*} General education course

^{**} Student must choose one CPT/IST elective from one of the other two concentrations