# CIST 1122 - Hardware Installation and Maintenance (version 201003L)

### Course Title Course Development Learning Support

Hardware Installation and Standard No Maintenance

## **Course Description**

This course serves to provide students with the knowledge of the fundamentals of computer technology, networking, and security along with the skills required to identify hardware, peripheral, networking, and security components with an introduction to the fundamentals of installing and maintaining computers. Students will develop the skills to identify the basic functionality of the operating system, perform basic troubleshooting techniques, utilize proper safety procedures, and effectively interact with customers and peers. This course is designed to help prepare students for the CompTIA A+ certification examination.

#### **Pre-requisites**

Pre-req	uisites: All Required	
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Program Admission

#### **Co-requisites**

Co-requisites: None

#### **Course Length**

•	Minutes	Contact Hour	Semester Credit	WLU
Lecture:	1500	30		
Lab 2:	1500	30		
Lab 3:	2250	45		
Total:	5250	105	4	
Semester Credit Hours:			4	161.25
Breakout Detail of Lab 3				
Practicum/Internship	0	0		
Clinical	0	0		

## **Competencies & Outcomes**

Orde	er Descriptio	on	Lecture	Lab 2	Lab 3	Total Min	Credit Hrs	Pract Intern	Clinical
1	Hardware		400	400	600	1400	1	0	0
	Order	Description						earning omain	Level of Learning
									Knowledge
	2	Implement, install, configure	e, optimize an	d upgrade	hardware	components	P	sychomotor	Mechanism
2	Troublesh Maintenar	ooting, Repair and nce	300	300	450	1050	1	0	0
	Order	Description						earning omain	Level of Learning

1	1 Explain and interpret common hardware and operating system troubleshooting Cognitive scenarios and solutions							
2	Perform preventive maintena systems	Psychomotor	Guided Response					
Operati	ng Systems and Software	300	300	450	1050	1	0	0
Order	Description						Learning Domain	Level of Learning
1	Compare and contrast different	ent Windov	ws operating	systems a	and their fea	atures	Cognitive	Analysis
2	Implement install, configure,	optimize a	ind upgrade	operating	systems		Psychomotor	Mechanism
3	<ul> <li>3 Demonstrate proper use of user interfaces</li> <li>4 Explain the basics of boot sequences, methods and startup utilities</li> </ul>							Application
4								Knowledge
Networl	king	190	215	322	727	1	0	0
Order	Description						Learning Domain	Level of Learning
1	Identify the fundamental principles and components of networks and network related hardware						Cognitive	Knowledge
2	2 Compare and contrast the different network types, including both wired and wireless technologies						Cognitive	Analysis
3	Implement, install, configure		Psychomotor	Mechanism				

5	Security		160	135	203	498	0	0	0	
	Order	Description	Learning Domain	Level of Learning						
	Cognitive	Knowledge								
	2 Implement , install, configure, upgrade and optimize security components Psychomotor Mechanism									
	3	Identify tools, diagnostic proc maintaining a secure environ		troubleshoo	oting tech	niques for		Cognitive	Knowledge	
6	Operation	nal Procedures	150	150	225	525	0	0	0	
									Level of Learning	
	1	Describe the aspects and imp	Cognitive	Comprehension						
	2	Demonstrate appropriate use workplace	of communi	ication skill	s and prot	fessionalism	in the	Affective	Valuing	
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	Lecture	Lab 2	Lab 3	Total Min	Cred Hrs	Pract Intern	Clinical
	1500	1500	2250	5250	4	0	0
Competency Totals:							