Networking A+
Certificate

Program Coordinators: Tamara Lasley • tlasley@vhcc.edu • 276-739-2503

Length: Three semesters
(1 year beginning in summer term)

Purpose: With the increased development of business, industry, and government in Virginia, there is a need for qualified personnel in information systems technology and networking. This certificate program is designed to train personnel for full-time employment upon completion of the course requirements. In addition, the curriculum furnishes the student the option to transfer into the AAS degree programs.

Occupational Objectives: Network Technician, Help Desk Technician, Computer Support Technician

Admission Requirements: A student eligible for admission to the College can normally be considered for admission to the Networking Certificate. Proficiency in high school English and mathematics is required. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental courses. Direct enrollment guidelines using either multiple measures or informed placement will determine a student's placement into college-level English and mathematics courses.

Program Requirements: The three-semester curriculum provides training in information systems, A+, help desk and Windows server. In addition, the curriculum includes supportive courses as a preparation for entrance into the job market. Upon successful completion of the curriculum, the student will be awarded a Certificate in Networking.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
Summer Session				
ENG 111	College Composition I	3	0	3
ITE 119 or ITE 152	Information Literacy or Introduction to Digital and Information Literacy and Computer Applications	3	0	3
	Total	**6**	**0**	**6**
First Semester (Fall)				
SDV 101	Orientation to College Success	1	0	1
MTH 132	Business Mathematics	3	0	3
ITN 106	Micro. Operating Systems	3	0	3
ITN 154	Introduction to Networks - CISCO I	3	2	4
ITE 182	User Support/Help Desk Principles	3	0	3
	Total	**13**	**2**	**14**
Second Semester (Spring)				
ITE 140	Spreadsheet Software or Approved IST elective	3	0	3
CSC 221	Introduction to Problem Solving and Programming[1]	3	0	3
ITN 107	PC Hardware & Troubleshooting	3	0	3
ITN 113	Active Directory (Windows Server 2008)	3	0	3
EEE	Social Science Elective	3	0	3
	Total	**15**	**0**	**15**
Total Minimum Credits for Certificate				**35**

[1] Prerequisite: ITE 115, 119, or 152 and MTH 132 or division approval

VHCC policy requires that students must keep their IT skills up to date. Therefore, IT courses transferred from other institutions and IT courses completed at VHCC must not be more than 5 years old for IT majors. If a student can demonstrate competency, the student may appeal the rule by requesting departmental approval from the lead faculty in the IT Department.

Students are urged to follow the recommended pathway for this certificate when choosing electives.

Additional approved humanities and social science electives are listed at http://www.vhcc.edu/GenEdCore.

CISCO Networking and A+
Career Studies Certificate

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Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITN 106	Microcomputer Operating Systems	3	0	3
ITN 107	Pers. Computer Hardware and Troubleshooting	3	0	3
ITN 154	Introduction to Networks- CISCO I	4	0	4
ITN 155	Switching, Routing, and Wireless Essentials-CISCO II[1]	4	0	4
ITN 156	Enterprise Networking, Security, and Automation-CISCO III[2]	4	0	4
ITN 260	Network Security Basics [3]	4	0	4
Total Credits for Career Studies Certificate		**22**	**0**	**22**

Footnotes:

[1]Prerequisite: ITN 154

[2]Prerequisite: ITN 155

[3]Prerequisite or co-requisite: ITN 154

ITN 106 and ITN 107 prepares student for the A+ certification.

ITN 154, ITN 155, and ITN 156, prepares student for CCNA (CISCO Certified Network Associate).