Information Systems Technology - Specialization in Networking
Associate of Applied Science Degree

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Length: Four semesters (two years)

Purpose: The Associate of Applied Science program is designed to provide a broad base of information systems and computer software experiences, which will prepare the graduate to enter the work force upon graduation. With the rapid development of business and industrial applications of information systems, there is a growing demand of qualified personnel in this area.

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

Admission Requirements: In addition to the admission requirements established for the college, entry into the Associate of Applied Science Degree Program in Information Systems Technology - Specialization in Networking requires proficiency in high school English and mathematics.

Direct enrollment guidelines using either multiple measures or informed placement will determine a student's placement into college-level English and mathematics courses.

Keyboarding skills are highly recommended. Students may enroll in AST 114 or 101 to upgrade keyboarding skills.

Program Requirements: The curriculum includes courses in information systems, programming, operating systems, hardware, troubleshooting, server administration, help desk topics, productivity software, database management, business and related areas as well as general education. Instruction covers both the theoretical concepts and practical applications needed for future success in business and industry. Courses in operating systems and PC hardware prepare students for A+ certification. Each student is urged to consult carefully with the counselor and a faculty advisor. Some courses within this curriculum may be applied to a four-year college program at the discretion of the admitting institution. Upon satisfactory completion of the four-semester curriculum listed, the graduate will be awarded the Associate of Applied Science Degree in Information Systems Technology - Specialization in Networking.

Notes on Transfer: Associate of Applied Science Degree programs are designed primarily to provide occupational competence for employment entry. Upon the student's request, courses may be modified to provide possible transfer acceptability by four-year colleges and universities.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
First Semester (Fall)				
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
ITE 182	User Support/Help Desk Principles	3	0	3
ITN 106	Micro. Operating Systems	3	0	3
ITN 154	Introduction to Networks - CISCO I	3	2	4
SDV 101	Orientation to College Success	1	0	1
	Total	**16**	**2**	**17**
Second Semester (Spring)				
EEE	Social Science Elective	3	0	3
CSC 221	Introduction to Problem Solving and Programming[1]	3	0	3
ITE 140	Spreadsheet Software	3	0	3
ITN 107	PC Hardware & Troubleshooting	3	0	3

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITN 155	Switching, Routing, and, Wireless Essentials -CISCO II[2]	3	2	4
	Total	**15**	**2**	**16**
Third Semester (Fall)				
ITN 260	Network Security Basics[3]	3	0	3
CSC 222	Objected Oriented Programming[4]	4	0	4
ITN 156	Enterprise Networking, Security, and Automation-CISCO III[5]	3	2	4
MTH 132	Business Mathematics	3	0	3
ECO 201 or ECO 202	Principles of Macroeconomics or Principles of Microeconomics	3	0	3
	Total	**16**	**2**	**17**
Fourth Semester (Spring)				
ITD 132	Structured Query Language[6]	4	0	4
ITN 113	Active Directory (Windows Server 2008)	3	0	3
EEE	Humanities Elective	3	0	3
BUS 225	Applied Business Statistics[7]	3	0	3
EEE	Approved IT Elective or Coordinated Internship	3	0	3
SDV 106	Preparation for Employment	1	0	1
	Total	**17**	**0**	**17**
Total Minimum Credits for AAS Degree				**67**

Footnotes:

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

[2] Prerequisite: ITN 154

[3] Prerequisite or corequisite: ITN 154

[4] Prerequisite: CSC 221 or division approval

[5] Prerequisite: ITN 155

[6] Prerequisite: ITE 115, ITE 119, or ITE 152 or Division Approval.

[7] Prerequisite: MTH 132

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 degree when choosing electives.

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