

# Information Systems Technology - Specialization in Networking

## Associate of Applied Science Degree

**Program Coordinators:** Tamara Lasley • LRC 215 • 276-739-2503

**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. Students who are not proficient in English and mathematics will be required to correct their deficiencies in developmental 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, accounting, 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
<b>Third Semester (Fall)</b>				
EEE	Humanities Elective	3	0	3
ITP 120	Java Programming I	4	0	4
ITN 156	Basic Switching & Routing (CISCO III) <sup>2</sup>	3	2	4
MTH 132	Business Mathematics	3	0	3
ECO 201 or ECO 202	Principles of Economics I or II	3	0	3
<b>Total</b>		<b>16</b>	<b>2</b>	<b>17</b>
<b>Fourth Semester (Spring)</b>				
ITD 132	Structured Query Language <sup>3</sup>	4	0	4
ITN 113	Active Directory (Windows Server 2008)	3	0	3
ITN 157	WAN Technologies (CISCO IV) <sup>4</sup>	3	2	4
BUS 225	Applied Business Statistics <sup>5</sup>	3	0	3
EEE	Approved IT Elective or Coordinated Internship	3	0	3
SDV 106	Preparation for Employment	1	0	1
<b>Total</b>		<b>17</b>	<b>2</b>	<b>18</b>
<b>Total Minimum Credits for AAS Degree</b>				<b>68</b>

**Footnote:**

1. Prerequisite: ITN 154
2. Prerequisite: ITN 155
3. Prerequisite: ITE 115 or ITE 119, & ITE 150 or Division Approval.
4. Prerequisite: 156
5. 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>.

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
<b>First Semester (Fall)</b>				
ENG 111	College Composition I	3	0	3
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ITE 182	User Support/Help Desk Principles	3	0	3
ITN 106	Micro. Operating Systems	3	0	3
ITN 154	Networking Fundamentals (CISCO I)	3	2	4
SDV 101	Orientation to College Success	1	0	1
<b>Total</b>		<b>16</b>	<b>2</b>	<b>17</b>
<b>Second Semester (Spring)</b>				
EEE	Social Science Elective	3	0	3
ITP 100	Software Design	3	0	3
ITE 140	Spreadsheet Software	3	0	3
ITN 107	PC Hardware & Troubleshooting	3	0	3
ITN 155	Switching, Wireless & WAN Technologies (CISCO II) <sup>1</sup>	3	2	4
<b>Total</b>		<b>15</b>	<b>2</b>	<b>16</b>