

COURSE NO.	COURSE TITLE	HOURS	HUMANITIES ELECTIVES		SOCIAL SCIENCE ELECTIVES		SOCIAL SCIENCE ELECTIVES continued		
<b>Fall</b>			ART 111	Art Appreciation	ANT 210	General Anthropology	POL 220	International Relations	
CIS 110	Intro to Computers	3	ART 114	Art History Survey I	ANT 220	Cultural Anthropology	PSY 150	General Psychology	
MAT 161	College Algebra	3	ART 115	Art History Survey II	ANT 221	Comparative Cultures	SOC 210	Intro to Sociology	
MAT 161A	College Algebra Lab	1	ART 116	Survey of American Art	ANT 230	Physical Anthropology	SOC 213	Sociology of the Family	
NET 125	Networking Basics	3	ART 117	Non-Western Art History	ANT 240	Archaeology	SOC 220	Social Problems	
NOS 110	Operating Systems Concepts	3	ENG 131	Intro to Literature	ECO 151	Survey of Economics	SOC 225	Social Diversity	
SEC 110	Security Concepts	3	ENG 231	American Literature I	ECO 251	Prin of Microeconomics	SOC 230	Race and Ethnic Relations	
<b>Spring</b>			ENG 232	American Literature II	ECO 252	Prin of Macroeconomics	SOC 240	Social Psychology	
NET 126	Routing Basics	3	ENG 241	British Literature I	GEO 111	World Geography			
NOS 130	Windows Single User	3	ENG 242	British Literature II	GEO 112	Cultural Geography			
SEC 150	Secure Communications	3	ENG 273	African-American Literature	GEO 130	Physical Geography			
SEC 160	Secure Admin I	3	HUM 110	Technology and Society	GEO 131	Physical Geography I			
WEB 110	Internet/Web Fundamentals	3	HUM 160	Intro to Film	GEO 132	Physical Geography II			
<b>Summer</b>			MUS 110	Music Appreciation	HIS 111	World Civilizations I			
ENG 111	Expository Writing	3	MUS 112	Intro To Jazz	HIS 112	World Civilizations II			
NET 175	Wireless Technology	3	MUS 113	American Music	HIS 114	Comparative World History			
NET 225	Routing & Switching I	3	MUS 210	History of Rock Music	HIS 116	Current World Problems			
NOS 120	Linux/Unix Single User	3	PHI 210	History of Philosophy	HIS 121	Western Civilization I			
<b>Elective</b>	<b>Humanities Elective</b>	3	PHI 215	Philosophical Issues	HIS 122	Western Civilization II			
<b>Fall</b>			PHI 220	Western Philosophy I	HIS 131	American History I			
CIS 115	Intro to Programming & Logic	3	PHI 221	Western Philosophy II	HIS 132	American History II			
CTS 120	Hardware/Software Support	3	PHI 230	Introduction to Logic	HIS 162	Women and History			
ENG 114 OR	Prof Research & Reporting OR	3	PHI 240	Intro to Ethics	HIS 211	Ancient History			
ENG 112 OR	Argument-Based Research OR		REL 110	World Religion	HIS 212	Medieval History			
ENG 113	Literature-Based Research		REL 111	Eastern Religion	HIS 213	Modern Europe to 1815			
NET 226	Routing & Switching II	3	REL 112	Western Religion	HIS 214	Modern Europe Since 1815			
NOS 230	Windows Admin I	3	REL 211	Intro to Old Testament	HIS 221	African-American History			
			REL 212	Intro to New Testament	HIS 236	North Carolina History			
<b>Spring</b>			REL 221	Religion in America	POL 110	Intro Political Science			
CTS 115	Info Systems Business Concepts	3			POL 120	American Government			
CTS 287 OR	Emerging Technologies OR	3			POL 130	State & Local Government			
COE (xxx)	(contact co-op office for information)				POL 210	Comparative Government			
DBA 110	Database Concepts	3						☑ Course available online	
NET 289	Networking Project	3							
<b>Elective</b>	<b>Social Science Elective</b>	3	<b>Note: Major course credits earned over five years ago will not apply toward this degree.</b>						📖 Articulated course
									👉 Prerequisite required
<b>Total Program Hours</b>		<b>76</b>							

## Gaston College Networking Technology

The Networking Technology curriculum prepares individuals for employment supporting network infrastructure environments. Students will learn how to use technologies to provide reliable transmission and delivery of data, voice, image, and video communications in business, industry, and education. Course work includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers. Graduates may find employment in entry-level jobs as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

### Occupational Outlook Handbook Information ([www.bls.gov](http://www.bls.gov))

**Education and training.** While there is no universally accepted way to prepare for a job as a network systems analyst, most employers place a premium on some formal college education. A bachelor's degree is a prerequisite for many jobs; however, some jobs may require only a two-year degree. Relevant work experience also is very important.

For database administrator and network systems and data communication analyst positions, most employers seek applicants who have bachelor's degrees in computer science, information science, or management information systems (MIS). MIS programs usually are part of the business school or college and differ considerably from computer science programs, emphasizing business and management-oriented coursework and business computing courses. Employers increasingly prefer applicants with a master's degree in business administration (MBA) with a concentration in information systems, as more firms move their business to the Internet. For some network systems and data communication analysts, such as webmasters, an associate degree or certificate is sufficient; although more advanced positions might require a computer-related bachelor's degree.

Most community colleges offer an associate's degree in computer science or a related information technology field. Many of these programs may be geared more toward meeting the needs of local businesses and are more occupation specific than are four-year degree programs. Some jobs may be better suited to the level of training that such programs offer. Employers usually look for people who have broad knowledge and experience related to computer systems and technologies, strong problem-solving and analytical skills, and good interpersonal skills. Courses in computer science or systems design offer good preparation for a job in these computer occupations. For jobs in a business environment, employers usually want systems analysts to have business management or closely related skills.

**Other qualifications.** Network analysts must be able to think logically and have good communication skills. Because they often deal with a number of tasks simultaneously, the ability to concentrate and pay close attention to detail also is important. Although computer specialists sometimes work independently, they frequently work in teams on large projects. As a result, they must be able to communicate effectively with computer personnel, such as programmers and managers, as well as with users or other staff who may have no technical computer background.

### Student Success

"Getting my degree at Gaston College has really helped me get a great start in the career field of Information Technology. The teaching staff is really dedicated to helping you learn and make the right choices that will get you heading in the right direction. They even helped me get my first job as a Network Administrator, which has really jumpstarted my career. I highly recommend Gaston College and their teaching staff if you are considering a new career."

David Martin  
Network Analyst, Gaston County Government

### Gaston College Graduates

Gaston College Networking Technology graduates have obtained employment with local employers including: Dole, Gaston College, PSNC Energy, City of Gastonia and Duke Energy.

### Contact Information

Mark Shellman, Chair	<a href="mailto:shellman.mark@gaston.edu">shellman.mark@gaston.edu</a>	704.922.6278	Office Location: CET 37
Karen Jenkins, Admin Assistant	<a href="mailto:jenkins.karen@gaston.edu">jenkins.karen@gaston.edu</a>	704.922.6263	Office Location: CET 34