

INFORMATION TECHNOLOGY

Associate in Applied Science and Certificate

This degree is designed to provide training and skills required for employment in the Information Technology (IT) career field. Employment for IT is available from the expanding computer service industry. This industry is one of the nation's fastest growing employment industries. Information technologists install, maintain, administer, and manage a computer network. This degree focuses on networking fundamentals such as network communication devices and protocols, network operating systems, personal computer (PC) hardware and software principles, PC and network security, support center operations and database management tools.

			<u>Credits</u>
Freshman Year-Fall Semester			
ENGL	111G	Rhetoric and Composition	4
E T	122	Fundamentals of Computer Applications	3
E T	153	Introduction to Computer Networks	3
Humanities or social science elective*			3
MATH	120	Intermediate Algebra	3

Freshman Year-Spring Semester			
ART	161	Digital Imaging I	3
E T	155	Network Operating Systems I	3
E T	182	Digital Logic	3
E T	262	Software Technology I	3
E T	283	Hardware PC Maintenance	3
E T	284	Software PC Maintenance	3

Sophomore Year-Fall Semester			
COMM	265G	Principles of Human Communications	3
OR COMM 253G Public Speaking			3
ENGL	218G	Technical & Scientific Communication	3
E T	253	Networking Operating System II	3
E T	273	Fundamentals of Networking Communications I	3
E T	285	Principles of Security	3
OECS	220	Database Application and Design	3

Sophomore Year-Spring Semester			
ART	165	Web Page Design	3
E T	220**	Internship	2
E T	256	Networking Operating System III	3
E T	277	Fundamentals of Network Communications II	3
E T	286	Fundamentals of Security	3
E T	290	Networking Wireless Communication	3

*Humanities or social science elective must be selected to satisfy the college and New Mexico Common Core requirements.

**All Information Technology majors are required to complete a 2-credit internship program within the sophomore year.

A grade of C or better is required in all ET, math, English, and science courses for the certificate and the degree.

Total Credits Required **69**

Certificate in Network Specialist

This certificate prepares students for entry level positions in the computer networking support industry.

			<u>Credits</u>
General Requirement			
ENGL	111G	Rhetoric and Composition	4
Engineering Technology Options (29 credits)			
E T	122	Fundamentals of Computer Applications	3
E T	153	Introduction to Computer Networks	3
E T	155	Network Operating Systems I	3
E T	253	Networking Operating Systems II	3
E T	256	Networking Operating Systems III	3
E T	262	Software Technology I	3
E T	273	Fundamentals of Networking Communications I	3
E T	277	Fundamentals of Network Communications II	3
E T	283	Hardware PC Maintenance	3
E T	284	Software PC Maintenance	3
E T	285	Principles of Security	3
E T	286	Fundamentals of Security	3
E T	290	Networking Wireless Communication	3
OECS	220	Database Application and Design	3

Total Credits Required **33**

The Certificate in Network Specialist requires completion of 33 credits of which 4 credits must be in ENGL 111G and the remaining 29 credits must be taken from the above listed ET course options.

The Network Operating Systems courses, ET 155, 253, and 256, do not require completion in numerical order.

Students may apply the associate's degree course work to a bachelor's degree in Information and Communication Technology (ICT) offered at the Las Cruces campus.

The Bachelor of Information and Communication Technology is available through the College of Distance Education from the main campus in Las Cruces. Most of the course work can be completed through electronic classes with few visits to the Las Cruces campus. More information is available in the Advising Office.