

COMPUTER TECHNOLOGY (NETWORKING) - ASSOCIATE OF APPLIED SCIENCE

(60-63 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Degree requires a minimum of 60 credits and a cumulative GPA of 2.0. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 63 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Semester 1		Credits
Area I: Communications - English Composition Level 1		4
ENGL 1110G	Composition I	
Area IV: Social/Behavioral Sciences - Choose one from the following:		3
CJUS 1110G	Introduction to Criminal Justice	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Principles of Microeconomics	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies	
GNDR 2120G	Representing Women Across Cultures	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
Choose one from the following:		3-4
MATH 1215	Intermediate Algebra	
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
OATS 106	Business Mathematics	
OR Appropriate Technology-Related Math Course		
CTEC 120	IT Infrastructure Support I	3
or CTEC 127	or Introduction to Internet of Things	
or OECS 185	or PC Maintenance and Repair I	
CTEC 135	Windows Workstation	3
or OECS 207	or Windows	
Credits		16-17

Semester 2

General Education - Choose one course from different NM General Education Areas II, V, or VI in the NMSU/DACC Catalog.		3-4
Area III: Laboratory Sciences - Choose one from the following:		4
ASTR 1120G	The Planets Lecture & Laboratory	
C S 171G	Modern Computing in Practice	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	
CTEC 130	Linux Workstation	3
or OECS 204	or Linux Operating System	
CTEC 140	Introduction to Database Design	3
or OECS 220	or Database Application and Design	
Approved Computer-Related Elective - Choose one from the following:		3
CTEC 145	Introduction to Database Management	
or OECS 235	or Structured Query Language (SQL)	
CTEC 150	Mobile Application Programming	
or OECS 145	or Mobile Application Development	
CTEC 152	JAVA Programming	
or OECS 195	or Java Programming I	
or C S 152	or Java Programming	
CTEC 154	C++ Programming	
or OECS 192	or C++ Programming I	
or C S 151	or C++ Programming	
CTEC 156	Python Programming	
CTEC 158	Visual Basic Programming	
CTEC 245	Fundamentals of Cloud Based Data Systems	
OR Any Appropriate C S Course (EXCLUDING C S 110/BCIS 1110 and courses used to fulfill Technical/Major Requirements.)		

Credits

16-17

Semester 3

General Education Elective - Area I: Communications - English Composition Level 2		3
ENGL 2210G	Professional and Technical Communication	
or ENGL 2221G	Honors	
	or Writing in the Humanities and Social Science	
Concentration Courses (choose three) - Select 9 credits from the following (EXCLUDING courses used to fulfill Technical/Major Requirements):		9
CTEC 145	Introduction to Database Management	
or OECS 235	or Structured Query Language (SQL)	
CTEC 156	Python Programming	
CTEC 185	Routing and Switching Essentials	
or OECS 262	or Essentials of Routing and Switching	
CTEC 230	Introduction to Linux Server Administration	
or OECS 234	or Linux Server	
CTEC 235	Introduction to Windows Server Administration	
or OECS 237	or Windows Server	
CTEC 280	Scaling Networks	
or OECS 263	or Network Fundamentals	
CTEC 285	Connecting Networks	
or OECS 264	or Network Routing Protocols	
E T 253	Networking Operating Systems II	
OECS 230	Data Communications and Networks I	
OECS 231	Data Communications and Networks II	
Choose one from the following:		3-4
CTEC 180	Introduction to Networking	

2 Computer Technology (Networking) - Associate of Applied Science

E T 153	Fundamentals of Networking Communications	
E T 155	Network Operating Systems I	
E T 273	Advanced Networking Communications	
OECS 261	Introduction to Networks	
Credits		15-16
Semester 4		
Concentration Courses (choose one) - Select 4 credits from the list of Concentration Courses in Semester 2.		4
CTEC 220 or OECS 221	Internship or Internship I	3
CTEC 290 or CTEC 285 or OECS 269	Network Security or Connecting Networks or Network Security	3
Approved Computer-Related Elective - A list of approved electives can be found in Semester 2.		3
Credits		13
Total Credits		60-63