

COMPUTER TECHNOLOGY (NETWORKING) - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2024-2025 Catalog (60-63 credits)

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.

The New Mexico General Education Requirements (<https://catalogs.nmsu.edu/dona-ana/general-education-and-transfer-options/transfer-new-mexico-institutions/>) can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education".

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 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.

Prefix	Title	Credits
General Education		
<i>Select one course from four of the following six content areas for a total of 12-14 credits^{1,2}</i>		12-14
This degree requires courses from Areas I, III and IV; students must select one course from the remaining areas to complete General Education requirements.		
Area I: Communications		
ENGL 1110G	Composition I (grade of C- or better required) ³	
Area II: Mathematics		
Area III: Laboratory Sciences		
Select one course from the following:		
C S 171G	Modern Computing in Practice ³	
ASTR 1120G	The Planets Lecture & Laboratory ³	
PHYS 1115G	Survey of Physics with Lab ³	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ³	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab ³	
Area IV: Social/Behavioral Sciences		
Select one course from the following:		
CJUS 1110G	Introduction to Criminal Justice ³	
ECON 1110G	Survey of Economics ³	
ECON 2110G	Macroeconomic Principles ³	
ECON 2120G	Principles of Microeconomics ³	
PSYC 1110G	Introduction to Psychology ³	
SOCI 1110G	Introduction to Sociology ³	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies ³	

GNDR 2120G	Representing Women Across Cultures ³	
<i>General Education Elective</i>		
ENGL 2210G	Professional and Technical Communication Honors ³	3
or ENGL 2221G	Writing in the Humanities and Social Science	
Core Requirements		
Select one course from the following:		3-4
MATH 1215	Intermediate Algebra ³	
MATH 1350G	Introduction to Statistics ³	
OATS 106	Business Mathematics	
MATH 1220G	College Algebra ³	
MATH 1250G	Trigonometry & Pre-Calculus ³	
MATH 1430G	Applications of Calculus I ³	
MATH 1511G	Calculus and Analytic Geometry I ³	
MATH 1521G	Calculus and Analytic Geometry II ³	
OR Appropriate Technology-Related Math Course		
Major Requirements		
<i>Technical Requirements</i>		
CTEC 120	IT Infrastructure Support I	3
or CTEC 127	Introduction to Internet of Things	
or OECS 185	PC Maintenance and Repair I	
CTEC 130	Linux Workstation	3
or OECS 204	Linux Operating System	
CTEC 135	Windows Workstation	3
or OECS 207	Windows	
CTEC 140	Introduction to Database Design	3
or OECS 220	Database Application and Design	
CTEC 180	Introduction to Networking ⁴	3-4
or OECS 261	Introduction to Networks	
or E T 153	Fundamentals of Networking Communications	
or E T 155	Network Operating Systems I	
or E T 273	Advanced Networking Communications	
CTEC 220	Internship	3
or OECS 221	Internship I	
CTEC 290	Network Security	3
or CTEC 285	Connecting Networks	
or OECS 269	Network Security	
Select one course from the following:		3-4
CTEC 145	Introduction to Database Management	
or OECS 235	Structured Query Language (SQL)	
CTEC 150	Mobile Application Programming	
or OECS 145	Mobile Application Development	
CTEC 152	JAVA Programming	
or OECS 195	Java Programming I	
or C S 152	Java Programming	
CTEC 154	C++ Programming	
or OECS 192	C++ Programming I	
or C S 151	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.)		
<i>Concentration Coursework</i>		
Select 16 credits from the following (EXCLUDING courses used to fulfill Technical/Major Requirements.):		16
CTEC 145	Introduction to Database Management	

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or OECS 235	Structured Query Language (SQL)
CTEC 156	Python Programming
CTEC 185	Routing and Switching Essentials
or OECS 262	Essentials of Routing and Switching
CTEC 230	Introduction to Linux Server Administration
or OECS 234	Linux Server
CTEC 235	Introduction to Windows Server Administration
or OECS 237	Windows Server
CTEC 280	Scaling Networks
or OECS 263	Network Fundamentals
CTEC 285	Connecting Networks
or OECS 264	Network Routing Protocols
E T 253	Networking Operating Systems II ⁴
OECS 230	Data Communications and Networks I
OECS 231	Data Communications and Networks II

Total Credits **60-63**

¹ Each course selected must be from a different area and students cannot take multiple courses in the same area.

² See the General Education (<https://catalogs.nmsu.edu/dona-ana/general-education-and-transfer-options/transfer-new-mexico-institutions/>) section of the catalog for a full list of courses.

³ Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

⁴ Some courses not currently taught at DACC. Please refer to Class Schedule for a listing of courses taught at DACC.