COMPUTER TECHNOLOGY (IT SPECIALIST) - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2026-2027 Catalog

Degree requires a minimum of 60 credits and a cumulative GPA of 2.0.

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".

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 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		
Select one course from four of the following six content areas for a total of 14-15 credits [1, 2]		*14-15*
This degree requires courses from Areas I, II, III and IV; students must select one course from the remaining areas to complete General Education requirements.		
Area I: Communications - English Compostion Level 1		
ENGL 1110G	Composition I (grade of C- or better required) [3]	
Area II: Mathematics		
Choose one of the following:		
MATH 1220G	College Algebra [3]	
MATH 1250G	Trigonometry & Pre-Calculus [3]	
MATH 1350G	Introduction to Statistics [3]	
MATH 1430G	Applications of Calculus I [3]	
MATH 1511G	Calculus and Analytic Geometry I [3]	
MATH 1521G	Calculus and Analytic Geometry II [3]	
Area III: Laboratory Sciences		
Choose one from the following:		
CSCI 1115G	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		
Choose one 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 Honors [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]	
General Education Elective - Area I: Communications - English Composition Level 2		
ENGL 2210G	Professional and Technical Communication [3]	3
or ENGL 2221G	Writing in the Humanities and Social Science	
Major Requirements		
Technical Requirements		
BCIS 1160	Windows	3
CIST 1409	IT Essentials I: PC Hardware, Software, and Practical Applications	3
or CIST 1605	Internet of Things	
or CIST 1121	A+ Hardware and Operating Systems	
CIST 1411	Introduction to Networks	4
or E T 153	Fundamentals of Networking Communications	
or E T 155	Network Operating Systems I	
or E T 273	Advanced Networking Communications	
CIST 1680	Linux Essentials	4
or E T 153	Fundamentals of Networking Communications	
or E T 155	Network Operating Systems I	
or E T 273	Advanced Networking Communications	
CIST 2311	Database Concepts and Principles	3
CIST 2881	Cybersecurity Fundamentals	3
or CIST 2811	Foundations of Security	
CIST 2998	Internship in Computer Information Systems Technology	3
Choose one from the following:		3-4
CSCI 1240	C++ Programming I	
or CIST 2275	C++ Programming II	
CIST 2210	Introduction to SQL (Structured Query Language)	
CIST 2251	Python Programming II	
CTEC 158	Visual Basic Programming	
CTEC 152	JAVA Programming	
or CSCI 1210	Java Programming	
or CIST 1261	JavaScript Web Programming	
OR Any Appropriate CSCI Course (EXCLUDING courses used to fulfill Technical/Major Requirements.)		
Concentration Coursework		
Select 16 credits from approved computer-related electives (except OTEC 1101). Any course with the following prefix: BCIS, CSCI, CIST, DRFT, E E, E T, FDMA, and AIML. EXCLUDING courses used to fulfill Technical/Major Requirements.		16
Total Credits		**60-61**

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.

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,

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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 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.

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 Honors	
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	
Area II: Mathematics - Choose one of the following:		3-4
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	
BCIS 1160	Windows	3
CIST 1409 or CIST 1605 or CIST 1121	IT Essentials I: PC Hardware, Software, and Practical Applications or Internet of Things or A+ Hardware and Operating Systems	3
	Credits	**16-17**

Semester 2		
Area III: Laboratory Sciences - Choose one from the following:		4
ASTR 1120G	The Planets Lecture & Laboratory	
CSCI 1115G	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	
CIST 1680	Linux Essentials	3
CIST 2311	Database Concepts and Principles	3
Approved Computer-Related Elective - Choose one from the following:		3
CSCI 1240 or CIST 2275	C++ Programming I or C++ Programming II	
CIST 2210	Introduction to SQL (Structured Query Language)	
CIST 2251	Python Programming II	
CTEC 152 or CIST 1261 or CSCI 1210	JAVA Programming or JavaScript Web Programming or Java Programming	
CTEC 158	Visual Basic Programming	
OR Any Appropriate CSCI Course (EXCLUDING courses used to fulfill Technical/Major Requirements.)		
	Credits	**13**

Semester 3		
Concentration Courses (choose three) - Select 9 credits from approved computer-related electives (except OTEC 1101). Any course with the following prefix: BCIS, CSCI, CIST, DRFT, E E, E T, FDMA, and AIML.. EXCLUDING courses used to fulfull Technical/Major Requirements.		9
Choose one from the following:		3-4
CIST 1411	Introduction to Networks	
E T 153	Fundamentals of Networking Communications	
E T 155	Network Operating Systems I	
E T 273	Advanced Networking Communications	
General Education Elective - Area I: Communications - English Composition Level 2		3
ENGL 2210G or ENGL 2221G	Professional and Technical Communication or Writing in the Humanities and Social Science	
	Credits	**15-16**

Semester 4		
Concentration Courses - Select 7 credits from approved computer-related electives (except OTEC 1101). Any course with the following prefix: BCIS, CSCI, CIST, DRFT, E E, E T, FDMA, and AIML. EXCLUDING courses used to fulfull Technical/Major Requirements.		7
CIST 2998	Internship in Computer Information Systems Technology	3
Approved Computer-Related Elective - A list of approved electives can be found in Semester 2.		3
CIST 2811 or CIST 2811	Foundations of Security or Foundations of Security	3
	Credits	**16**
	Total Credits	**60-62**