COMPUTER TECHNOLOGY (ARTIFICIAL INTELLIGENCE) - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2026-2027 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, OTEC 1101 Beginning Keyboarding is a prerequisite for all CIST 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".

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]	
OR Appropriate Technology-Related Math Course		
Area III: Laboratory Sciences		
Choose one of 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 (Choose one from the following:)	
ECON 1110G	Survey of Economics (Choose one from the following:)	
ECON 2110G	Macroeconomic Principles [3]	
ECON 2120G	Principles of Microeconomics Honors [3]	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies [3]	
GNDR 2120G	Representing Women Across Cultures [3]	
PSYC 1110G	Introduction to Psychology [3]	
SOCI 1110G	Introduction to Sociology [3]	
General Education Elective - Area I: Communications - English Composition Level 2		
ENGL 2210G	Professional and Technical Communication (General Education Elective - Area I: Communications - English Composition Level 2)	3
Core Requirements		
Major Requirements		
Technical Requirements		
CIST 1409	IT Essentials I: PC Hardware, Software, and Practical Applications	3
CIST 1680	Linux Essentials	3
BCIS 1160	Windows	3
CIST 2251	Python Programming II	3
CIST 2311	Database Concepts and Principles	3
CIST 1411	Introduction to Networks	4
CIST 1413	Network Administration Concepts	4
CIST 2998	Internship in Computer Information Systems Technology	3
CIST 2331	Predictive Analytics	3
AIML 1320	Fundamentals of Artificial Intelligence	4
AIML 2310	Deep Learning	4
Choose one from the following:		3
CIST 2321	Visual Analytics	
CIST 2210	Introduction to SQL (Structured Query Language)	
CIST 2237	Android Application Development with Java and Kotlin	
CIST 2275	C++ Programming II	
CTEC 152	JAVA Programming	
or CIST 1261	JavaScript Web Programming	
or CSCI 1210	Java Programming	
CTEC 158	Visual Basic Programming	
OR Any Appropriate CSCI Course (EXCLUDING courses used to fulfill Technical/Major Requirements.)		
Concentration Coursework		
Select 3 credits from approved computer-related electives. Any course with the following prefix: AIML, BCIS, DRFT, E E, E T, FDMA. EXCLUDING courses used to fulfill Technical/Major Requirements.		3
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.

(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.

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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	
CIST 1409	IT Essentials I: PC Hardware, Software, and Practical Applications	3
BCIS 1160	Windows	3
	Credits	**13**
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 2331	Predictive Analytics	3
CIST 2251	Python Programming II	3
CIST 2311	Database Concepts and Principles	3
CIST 1680	Linux Essentials	3
	Credits	**16**
Semester 3		
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	
CIST 1411	Introduction to Networks	4
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	
AIML 1320	Fundamentals of Artificial Intelligence	4
	Credits	**14-15**
Semester 4		
Concentration Courses - Select 2 credits from approved computer-related electives. Any course with the following prefix: BCIS, CSCI, DRFT, E E, E T, FDMA, and AIML. EXCLUDING courses used to fulfull Technical/Major Requirements.		3
Choose one of the following:		3
CIST 2321	Visual Analytics	
CIST 2210	Introduction to SQL (Structured Query Language)	
CIST 2237	Android Application Development with Java and Kotlin	
CIST 2275	C++ Programming II	
CTEC 152 or CIST 1261	JAVA Programming or JavaScript Web Programming	
CTEC 158	Visual Basic Programming	
CIST 1413	Network Administration Concepts	4
CIST 2998	Internship in Computer Information Systems Technology	3
AIML 2310	Deep Learning	4
	Credits	**17**
	Total Credits	**60-61**