# COMPUTER TECHNOLOGY (NETWORKING) - ASSOCIATE OF APPLIED SCIENCE

## Doña Ana Community College 2026-2027 Catalog

## (60-61 credits)

The degree requires a minimum of 60 credits and a cumulative GPA of 2.0.

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** | | |
| *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 | | |
| ENGL 1110G | Composition I (grade of C- or better required) [3] | |
| Area II: Mathematics | | |
| Selcect from 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 | | |
| Select one course 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 | | |
| 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 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* | | |
| ENGL 2210G | Professional and Technical Communication [3] | 3 |
| or ENGL 2221G | Writing in the Humanities and Social Science | |
| **Major Requirements** | | |
| *Technical Requirements* | | |
| 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 1680 | Linux Essentials | 3 |
| BCIS 1160 | Windows | 3 |
| CIST 2311 | Database Concepts and Principles | 3 |
| 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 2881 | Cybersecurity Fundamentals | 3 |
| or CIST 2811 | Foundations of Security | |
| CIST 2998 | Internship in Computer Information Systems Technology | 3 |
| Select one course from the following: | | 3 |
| CIST 2210 | Introduction to SQL (Structured Query Language) (Select one course from the following:) | |
| CIST 1260 | JAVA Programming | |
| or CIST 1261 | JavaScript Web Programming | |
| or CSCI 1210 | Java Programming | |
| CSCI 1240 | C++ Programming I | |
| or CIST 2275 | C++ Programming II | |
| CIST 2251 | Python Programming II | |
| CIST 1258 | Visual Basic Programming | |
| OR Any Appropriate CSCI Course (EXCLUDING courses used to fulfill Technical/Major Requirements.) | | |
| Select 18 credits from the following (EXCLUDING courses used to fulfill Technical/Major Requirements.): | | 18 |
| CIST 2210 | Introduction to SQL (Structured Query Language) | |
| CIST 2251 | Python Programming II | |
| CIST 1412 | Network Device Configuration | |
| CIST 2611 | Windows Hybrid Server Administration | |
| CIST 2411 | Enterprise Networking | |
| CIST 2636 | CLOUD Computing | |
| E T 253 | Networking Operating Systems II [4] | |
| CIST 1413 | Network Administration Concepts | |
| CIST 2211 | Azure Administrator | |
| **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.

## (60-61 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.

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 Compostion 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 | |
| Choose one from 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 | |
| OR Appropriate Technology-Related Math Course | | |
| BCIS 1160 | Windows | 3 |
| CIST 1409<br>or CIST 1605<br>or CIST 1121 | IT Essentials I: PC Hardware, Software, and Practical Applications<br>or Internet of Things<br>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 |
| CIST 2210 | Introduction to SQL (Structured Query Language) | |
| CIST 2251 | Python Programming II | |
| CSCI 1240<br>or CIST 2275 | C++ Programming I<br>or C++ Programming II | |
| CIST 1260<br>or CSCI 1210 | JAVA Programming<br>or Java Programming | |
| CIST 1258 | Visual Basic Programming | |
| OR Any Appropriate CSCI Course | | |
| | **Credits** | **13** |
| **Semester 3** | | |
| General Education Elective - Area I: Communications - English Compostion Level 2 | | 3 |
| ENGL 2210G<br>or ENGL 2221G | Professional and Technical Communication<br>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 |
| CIST 2210 | Introduction to SQL (Structured Query Language) | |
| CIST 2251 | Python Programming II | |
| CIST 1412 | Network Device Configuration | |
| CIST 2611 | Windows Hybrid Server Administration | |
| CIST 2411 | Enterprise Networking | |
| CIST 2636 | CLOUD Computing | |
| E T 253 | Networking Operating Systems II | |
| CIST 2211 | Azure Administrator | |
| Choose one from the following: | | 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 | |
| | **Credits** | **16** |
| **Semester 4** | | |
| Concentration Courses (choose one) - Select 6 credits from the list of Concentration Courses in Semester 2. | | 6 |
| CIST 2998 | Internship in Computer Information Systems Technology | 3 |
| CIST 2881 | Cybersecurity Fundamentals | 3 |
| Approved Computer-Related Elective - A list of approved electives can be found in Semester 2. | | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **60-61** |