AUTOMATION AND MANUFACTURING - CERTIFICATE OF COMPLETION

Doña Ana Community College 2026-2027 Catalog

(31 credits)

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements 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 certificate requirements, which include: General Education requirements and elective credits to total at least 31 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
Technical Requirements		
ELT 110	Electronics I	4
MATH 1250G	Trigonometry & Pre-Calculus [1, 2]	4
or ELT 120	Mathematics for Electronics	
ELT 135	Electronics II	4
ELT 160	Digital Electronics I	4
MAT 102	Print Reading for Industry	3
MAT 105	Introduction to Manufacturing	3
MAT 110	Machine Operation and Safety	3
MAT 265	Special Topics	6
or Advisor Approved Electives (DRFT or ELT or MAT)		
Total Credits		**31**

1. Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus. Students planning to continue their studies at NMSU should choose these courses whenever possible.
2. While ELT 120 meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.

(31 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.

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements 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 certificate requirements to total at least 31 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
MATH 1250G	Trigonometry & Pre-Calculus [1]	4
or ELT 120	or Mathematics for Electronics	
ELT 110	Electronics I	4
MAT 105	Introduction to Manufacturing	3
	Credits	**11**
Semester 2		
ELT 135	Electronics II	4
MAT 102	Print Reading for Industry	3
	Credits	**7**
Semester 3		
ELT 160	Digital Electronics I	4
MAT 110	Machine Operation and Safety	3
MAT 265	Special Topics	3
or Advisor Approved Electives (DRFT or ELT or MAT)		
	Credits	**10**
Semester 4		
MAT 265	Special Topics	3
or Advisor Approved Electives (DRFT or ELT or MAT)		
	Credits	**3**
	Total Credits	**31**

1. While ELT 120 meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.