

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 or ELT 120	Trigonometry & Pre-Calculus ^{1,2} Mathematics for Electronics	4
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 or ELT 120	Trigonometry & Pre-Calculus ¹ or Mathematics for Electronics	4
ELT 110	Electronics I	4
MAT 105	Introduction to Manufacturing	3
Credits		11
Semester 2		Credits
ELT 135	Electronics II	4
MAT 102	Print Reading for Industry	3
Credits		7
Semester 3		Credits
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		Credits
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.