

# AUTOMATION AND MANUFACTURING - CERTIFICATE OF COMPLETION

## Doña Ana Community College 2022-2023 Catalog (33 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 33 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
<b>Technical Requirements</b>		
ELT 110	Electronics I	4
MATH 1250G or ELT 120	Trigonometry & Pre-Calculus <sup>1,2</sup> 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	8
or Advisor Approved Electives (DRFT or ELT or MAT)		
<b>Total Credits</b>		<b>33</b>

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.

### (33 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 33 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 <sup>1</sup> or Mathematics for Electronics	4
ELT 110	Electronics I	4
MAT 105	Introduction to Manufacturing	3
<b>Credits</b>		<b>11</b>
Semester 2		Credits
ELT 135	Electronics II	4
MAT 102	Print Reading for Industry	3
<b>Credits</b>		<b>7</b>
Semester 3		Credits
ELT 160	Digital Electronics I	4
MAT 110	Machine Operation and Safety	3
MAT 265	Special Topics	5
or Advisor Approved Electives (DRFT or ELT or MAT)		
<b>Credits</b>		<b>12</b>
Semester 4		Credits
MAT 265	Special Topics	3
or Advisor Approved Electives (DRFT or ELT or MAT)		
<b>Credits</b>		<b>3</b>
<b>Total Credits</b>		<b>33</b>

1

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