

AUTOMATION AND MANUFACTURING TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2024-2025 Catalog (61 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 degree requirements, which include: General Education requirements and elective credits to total at least 61 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		
<i>Choose one course from four of the following six content areas for a total of 12-14 credits</i> ^{1,2}		12-14
This degree requires courses from Areas I, II, III and IV; students do not need to take any additional General Education courses to meet the requirement		
Area I: Communications - English Composition Level 1		
ENGL 1110G	Composition I ³	
Area II: Mathematics		
MATH 1250G	Trigonometry & Pre-Calculus ³	
Area III: Laboratory Sciences - Choose one from the following:		
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ³	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab ³	
Area IV: Social/Behavioral Sciences - Choose one from the following:		
PSYC 1110G	Introduction to Psychology ³	
SOCI 1110G	Introduction to Sociology ³	
<i>General Education Elective - Area I: Communications - English Composition Level 2</i>		
ENGL 2210G	Professional and Technical Communication Honors	3
Core Requirement		
<i>Technical Requirements</i>		
DRFT 114	Introduction to Solid Modeling	3
ELT 110	Electronics I	4
ELT 135	Electronics II	4
ELT 160	Digital Electronics I	4
ELT 205	Semiconductor Devices	4
ELT 225	Computer Applications for Technicians	3
ELT 235	Digital Electronics II	3
MAT 102	Print Reading for Industry	3
MAT 105	Introduction to Manufacturing	3

MAT 110	Machine Operation and Safety	3
MAT 265	Special Topics	4
AERT 211	Electromechanical Devices	4
or AERT 121	Introduction to the Aerospace Workplace	
Choose one from the following:		1
MAT 221	Cooperative Experience I	
OECS 101	Computer Basics	
OETS 102	Career Readiness Certification Preparation	
Total Credits		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. Students planning to continue their studies at NMSU should choose these courses whenever possible.