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		
Choose one course from four of the following six content areas for a total of 12-14 credits [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 Compostion 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]	
General Education Elective - Area I: Communications - English Composition Level 2		
ENGL 2210G	Professional and Technical Communication Honors	3
Core Requirement		
Technical Requirements		
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.