

AEROSPACE TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2026-2027 Catalog (60 credits)

NOTE: Not all General Education ('G') courses listed below are taught at DACC. Please check DACC's current schedule for actual course offerings.

NOTE: Students must earn a final grade of C- or better in all 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 60 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 Requirements		
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, III, IV and V; 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	
or ENGL 1110H	Composition I Honors	
or ENGL 1110M	Composition I	
Area III: Laboratory Sciences - Choose one from the following:		
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
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	
or SOCI 1110G	Introduction to Sociology	
Area V: Humanities - Choose one from the following:		
ENGL 2650G	World Literature I ³	
HIST 1110G	United States History I ³	
HIST 1120G	United States History II ³	
HIST 1130G	World History I ³	
HIST 1140G	World History II ³	
HIST 1150G	Western Civilization I ³	
HIST 1160G	Western Civilization II ³	
PHIL 1115G	Introduction to Philosophy ³	
General Education Elective - Area I: Communications - English Composition Level 2		
ENGL 2210G	Professional and Technical Communication ³	3
or ENGL 2210H	Professional and Technical Communication	
Core Requirements		
MATH 1250G	Trigonometry & Pre-Calculus (transfer track) ³	4
or ELT 120	Mathematics for Electronics	

Technical Requirements⁴		
AERT 121	Introduction to the Aerospace Workplace	4
or AERT 105	Aerospace Engineering PLTW	
AERT 212	Materials and Processes (Basic Metallurgy)	3
or WELD 1310	Metallurgy	
AERT 213	Aerospace Fluid Systems	3
AERT 214	Aerospace Systems	3
AERT 221	Inspection Requirements and Planning Metrology	3
AERT 224	Aerospace Tests and Measurements	3
ELT 110	Electronics I	4
ELT 175	Soldering Practices	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	3
Choose one from the following:		1
AERT 225	Cooperative Experience	
AERT 255	Special Topics	
AERT 290	Independent Study	
CIST 1111	Introductions (Foundations) of Information Systems	
OETS 102	Career Readiness Certification Preparation	
Total Credits		60

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.

⁴ A final grade of C- or better is required in all 100-level technical courses to progress to 200-level technical courses.

(60 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 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 60 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
FALL	
MATH 1250G	Trigonometry & Pre-Calculus ¹
or ELT 120	or Mathematics for Electronics

2 Aerospace Technology - Associate of Applied Science

AERT 121 or AERT 105	Introduction to the Aerospace Workplace or Aerospace Engineering PLTW	4
ELT 175	Soldering Practices	3
MAT 105	Introduction to Manufacturing	3
MAT 110	Machine Operation and Safety	3
Credits		17
Semester 2		
SPRING		
Area I: Communications - English Composition Level 1		4
ENGL 1110G	Composition I	
Area V: Humanities - Choose one from the following:		3
ENGL 2650G	World Literature I	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
ELT 110	Electronics I	4
MAT 102	Print Reading for Industry	3
Credits		14
Semester 3		
SUMMER		
Area IV: Social/Behavioral Sciences		3
PSYC 1110G or SOCI 1110G	Introduction to Psychology or Introduction to Sociology	
Credits		3
Semester 4		
FALL		
General Education Elective - Area I: Communications - English Composition Level 2		3
ENGL 2210G	Professional and Technical Communication	
AERT 213	Aerospace Fluid Systems	3
AERT 214	Aerospace Systems	3
Choose one from the following:		1
AERT 225	Cooperative Experience	
AERT 255	Special Topics	
AERT 290	Independent Study	
CIST 1111	Introductions (Foundations) of Information Systems	
OETS 102	Career Readiness Certification Preparation	
Credits		10
Semester 5		
SPRING		
Area III: Laboratory Sciences - Choose one from the following:		4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1310G & PHYS 1310L	Calculus-Based Physics I and Calculus-Based Physics I Lab	
AERT 212 or WELD 1310	Materials and Processes (Basic Metallurgy) or Metallurgy	3
AERT 221	Inspection Requirements and Planning Metrology	3
AERT 224	Aerospace Tests and Measurements	3

MAT 265	Special Topics	3
Credits		16
Total Credits		60

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