

AEROSPACE TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2020-21 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	
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 or SOCI 1110G	Introduction to Psychology ³ Introduction to Sociology	
ENGL 1410G	Introduction to Literature ³	
ENGL 2520G	Film as Literature ³	
ENGL 2310G	Introduction to Creative Writing ³	
ENGL 2650G	World Literature I ³	
HIST 1105G	Making History 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	
HIST 2245G	Islamic Civilizations to 1800 ³	
HIST 2246G	Islamic Civilizations since 1800 ³	
HIST 2250G	East Asia to 1600 ³	
HIST 2251G	East Asia since 1600 ³	
PHIL 1115G	Introduction to Philosophy ³	
PHIL 1120G	Logic, Reasoning, & Critical Thinking ³	

PHIL 1140G	Quest for God ³	
PHIL 1145G	Philosophy, Law, and Ethics ³	
PHIL 1155G	Philosophy of Music ³	
PHIL 2110G	Introduction to Ethics ³	
PHIL 2230G	Philosophical Thought ³	
<i>General Education Elective - Area I: Communications - English Composition Level 2</i>		
ENGL 2210G	Professional & Technical Communication ³	3
Core Requirements		
MATH 1250G or ELT 120	Trigonometry & Pre-Calculus (transfer track) ³ Mathematics for Electronics	4
<i>Technical Requirements ⁴</i>		
ELT 105	Basic Electricity and Electronics	3
MAT 105	Introduction to Manufacturing	3
MAT 102	Print Reading for Industry	3
MAT 110	Machine Operation and Safety	3
AERT 121 or AERT 105	Introduction to the Aerospace Workplace Aerospace Engineering PLTW	4
ELT 110	Electronics I	4
AERT 212 or WELD 120	Materials and Processes (Basic Metallurgy) Basic Metallurgy	3
AERT 213	Aerospace Fluid Systems	3
AERT 214	Aerospace Systems	3
AERT 221	Inspection Requirements and Planning Metrology	3
MAT 265	Special Topics	3
AERT 224	Aerospace Tests and Measurements	3
OETS 102	Career Readiness Certification Preparation	1
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](#) 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.

Course	Title	Credits	Semester 5
Semester 1			SPRING
FALL			Area III: Laboratory Sciences - Choose one from the following: 4
MATH 1250G or ELT 120	Trigonometry & Pre-Calculus ¹ or Mathematics for Electronics	4	PHYS 1230G & PHYS 1230L Algebra-Based Physics I and Algebra-Based Physics I Lab
AERT 121 or AERT 105	Introduction to the Aerospace Workplace or Aerospace Engineering PLTW	4	PHYS 1310G & PHYS 1310L Calculus -Based Physics I and Calculus -Based Physics I Lab
ELT 105	Basic Electricity and Electronics	3	AERT 212 or WELD 120 Materials and Processes (Basic Metallurgy) or Basic Metallurgy
MAT 105	Introduction to Manufacturing	3	AERT 221 Inspection Requirements and Planning Metrology
MAT 110	Machine Operation and Safety	3	AERT 224 Aerospace Tests and Measurements
	Credits	17	MAT 265 Special Topics
Semester 2			Credits 16
SPRING			Total Credits 60
Area I: Communications - English Composition Level 1 4			
ENGL 1110G	Composition I	4	
Area V: Humanities - Choose one from the following: 3			
ENGL 1410G	Introduction to Literature	3	
ENGL 2310G	Introduction to Creative Writing	3	
ENGL 2520G	Film as Literature	3	
ENGL 2650G	World Literature I	3	
HIST 1105G	Making History	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	
HIST 2245G	Islamic Civilizations to 1800	3	
HIST 2246G	Islamic Civilizations since 1800	3	
HIST 2250G	East Asia to 1600	3	
HIST 2251G	East Asia since 1600	3	
PHIL 1115G	Introduction to Philosophy	3	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	3	
PHIL 1140G	Quest for God	3	
PHIL 1145G	Philosophy, Law, and Ethics	3	
PHIL 1155G	Philosophy of Music	3	
PHIL 2110G	Introduction to Ethics	3	
PHIL 2230G	Philosophical Thought	3	
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	3	
	Credits	3	
Semester 4			
FALL			
General Education Elective - Area I: Communications - English Composition Level 2 3			
ENGL 2210G	Professional & Technical Communication	3	
AERT 213	Aerospace Fluid Systems	3	
AERT 214	Aerospace Systems	3	
OETS 102	Career Readiness Certification Preparation	1	
	Credits	10	

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