

AEROSPACE TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE

Doña Ana Community College 2022-2023 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 or Introduction to Sociology	
Area V: Humanities - Choose one from the following:		
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 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 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 or Mathematics for Electronics	4
<i>Technical Requirements⁴</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 or Aerospace Engineering PLTW	4
ELT 110	Electronics I	4
AERT 212 or WELD 120	Materials and Processes (Basic Metallurgy) or 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
Choose one from the following:		1
AERT 225	Cooperative Experience	
AERT 255	Special Topics	
AERT 290	Independent Study	
OECS 101	Computer Basics	
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 (<http://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 or ELT 120	Trigonometry & Pre-Calculus ¹ or Mathematics for Electronics	4
AERT 121 or AERT 105	Introduction to the Aerospace Workplace or Aerospace Engineering PLTW	4
ELT 105	Basic Electricity and Electronics	3
MAT 105	Introduction to Manufacturing	3
MAT 110	Machine Operation and Safety	3
Credits		17

Semester 2		Credits
SPRING		
Area I: Communications - English Composition Level 1		4
ENGL 1110G	Composition I	
Area V: Humanities - Choose one from the following:		3
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
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	
HIST 2245G	Islamic Civilizations to 1800	
HIST 2246G	Islamic Civilizations since 1800	
HIST 2250G	East Asia to 1600	
HIST 2251G	East Asia since 1600	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
ELT 110	Electronics I	4
MAT 102	Print Reading for Industry	3
Credits		14

Semester 3		Credits
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 & 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	
OECS 101	Computer Basics	
OETS 102	Career Readiness Certification Preparation	

Semester 5		Credits
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 120	Materials and Processes (Basic Metallurgy) or Basic 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

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