

AEROSPACE TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE

(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 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.