

**Associate of Applied Science: Aerospace Manufacturing**

Postsecondary Partner: [Nunez Community College](#)

**Overview**

The Aerospace Manufacturing Technology program provides classroom and hands-on training that allows students to develop the knowledge and skills to successfully perform the tasks required of an entry level Aerospace Manufacturing Technician. The curriculum was designed to be directly related to an in-depth task analysis for Aerospace Manufacturing Technicians, with content and courses mapped directly to expected job performance.

**Capstone Credentials**

Regional (emerging)	Basic	Advanced	Fast Forward Advanced Plus
-Not applicable	-Certificate of Technical Studies: Aerospace Manufacturing Technology	-Technical Diploma: Aerospace Manufacturing Technology	-Associate of Applied Science: Aerospace Manufacturing

*\*Core Academic Course*

*\*\*Jump Start CTE Course*

Grade 9	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English I 120331	*English II 120332
*Algebra I 160321	*Geometry 160323
*Civics 220501/220504	*Core Academic Art
*Physical Education I 190105	*Physical Science 150802



Grade 10	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English III 120333	*Algebra II 160322
*½ Physical Education II 190106 ½ Health Education 190500	*U.S. History 220403
*World History 220401	*Biology 150301
*Foreign Language I	*Foreign Language II

*Additional and/or equivalent TOPS core aligned courses can be found in Bulletin 741.*

Grade 11			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*English Comp I ENGL 1010	*English IV: DE - CENL 1013 English Composition I 120606	*College Algebra MATH 1300	*Algebra III: DE - CMAT 1213 College Algebra 160500
*Western Civilization HIST 1010	*Western Civ: DE - CHIS 1013 Western Civilization I 220446	Sociology SOCI 1100	DE Sociology 220601
**Industrial Plant Safety ARST 1030	**DE Industrial and Plant Safety 311921	**Quality Controls INDT 2070	**DE Quality Controls 313727
**Introduction to Aerospace ARST 1000	**DE Aerospace Science 150903	**Intro. To Electronic and Electrical Assembly ARST 1040	**DE Electrical and Electronics Engineering 141001
**Introduction to Mechanical Assembly	**DE Manufacturing Technology 110250	**Fluid Systems ARST 1050	**DE Fluid Mechanics 110331



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Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*Chemistry CHEM 1100	*Chemistry I: DE - CCEM 1103 Chemistry I 150414	**Advanced Electronic and Electrical Assembly ARST 1760	**DE Advanced Electrical Electronics 310383
**Print Reading ARST 1210	**DE Design, Blueprint Reading and Codes 310622	**Aerospace Mechanical Assembly ARST 2700	**DE Manufacturing Process and Team Building 110256
**Adhesive Bonding ARST 2760	**DE Adhesive Bonding 890600	**Welding for Aerospace ARST 2510	**DE Welding Technology 110230
**Composite Materials ARST 2780	**DE Materials and Processes 110005	**Fabrication for Aerospace ARST 2790	**DE Manufacturing Tools and Equipment 110257
**Surface Prep and Coating ARST 2800	**DE Surface Prep and Coating 890602	**Hoist and Crane Equipment ARST 1500	**DE Hoist and Crane Equipment 890601
		*Environmental Science BIOL 2210 or ENVN 2210	*Environmental Science: DE - CEVS 1103 Environmental Science 150914

*This pathway framework is an outline of how the approved courses can be implemented. Schools may opt to rearrange the order of course sequencing in order to meet local scheduling requirements. Additionally, Fast Forward pathways are dynamic and the Jump Start Review panel will consider course equivalents on an as needed basis.*

