

Aerospace Technology/Structures & Assembly, A.A.S.

The Associate of Applied Science degree in Advanced Manufacturing with a concentration in Aerospace Technology will prepare graduates for employment in aerospace and related industries through classroom and laboratory instruction in propulsion structure and assembly or welding.

Subject: Advanced Manufacturing

Program Code:

AAS-ADMA-AERS

CIP:

15.0613

Type: A.A.S.

GENERAL EDUCATION CORE REQUIREMENTS

Item #	Title	Credits
ENG 101	English Composition I	3
MTH 103	Introduction to Technical Mathematics	3
	Humanities/Fine Arts Elective (Excluding Speech and Foreign Language)	3
	Social & Behavioral Science Electives	3
	Natural Science or MTH Elective	3-4

ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS

Item #	Title	Credits
ADM 101	Precision Measurement	3
ADM 104	Introduction to Thermal/Electrical Principles	3
ADM 105	Fluid Systems	3
ADM 106	Quality Control Concepts	3
	ADM 107 OR ADM 108	3
ADM 111	Manufacturing Safety Practices	3

AEROSPACE FUNDAMENTAL COURSE REQUIREMENTS

Item #	Title	Credits
MTT 121	Basic Blueprint Reading for Machinists	3
ARS 151	Welding Principles, Theory and Symbols	3
ARS 176	Electrical/Electronic Assembly	3
ARS 178	Aerospace Mechanical Assembly	3
ARS 279	Adv. Composite Materials Fabrication & Assembly	3
ARS 280	Surface Preparation and Coatings	3
ARS 282	Integrated Assembly Project	3

AEROSPACE/STRUCTURES & ASSEMBLY COURSE REQUIREMENTS

Item #	Title	Credits
ARS 276	Instrumentation Attachments and Adhesive Bonding Procedures	3
ARS 278	Composite Materials Fabrication and Assembly	3
ARS 284	Specialized Coating Processes	3
	Total credits:	63-64