

AEROSPACE MANUFACTURING TECH (ARST)

ARST 1000 – Introduction to Aerospace 2 credit hours

Lecture Hours: 2; Lab Hours: 0 Introduction to the Aerospace industry focusing on general information on spacecraft systems, safety and professionalism.

Flat Fee: 50

Schedule type: Lecture, Web

ARST 1040 – Intro to Elec.& Elec. Assembly 4 credit hours

Lecture Hours: 1; Lab Hours: 3 This course is an introduction to basic electronic and electrical assembly focusing on safe practice.

Flat Fee: 30

Co-requisite(s): ARST 1000

ARST 1050 – Fluid Systems 2 credit hours

Lecture Hours: 1; Lab Hours: 1 This course introduces hydraulic, pneumatic and propellant systems.

ARST 1210 – Print Reading 3 credit hours

Lecture Hours: 3; Lab Hours 0 This course is an introduction to blueprints and schematics with a focus on computer aided drawings.

Flat Fee: 78

Pre-requisite(s): ARST 1000

Schedule type: Lecture, Web

ARST 1500 – Hoist & Crane Equipment 1 credit hour

Lecture Hours: 0; Lab Hours: 1 This course provides instruction on the mobile equipment used in aerospace manufacturing.

Schedule type: Laboratory, Lecture

ARST 1760 – Adv Electro & Electri Assembly 4 credit hours

Lecture Hours: 1; Lab Hours 3 This course develops skills in electronic and electrical assembly needed for technicians in the aerospace manufacturing industry focusing on safe practice.

Flat Fee: 158

Pre-requisite(s): ARST 1040

ARST 1780 – Intro Mech Assembly 4 credit hours

Lecture Hours: 1; Lab Hours: 3 This course is an introduction to mechanical assembly skills and processes for manufacturing technicians.

Flat Fee: 20

Co-requisite(s): ARST 1000

ARST 2510 – Welding Aero Manuf 4 credit hours

Lecture Hours: 1; Lab Hours: 3 This course introduces students to welding processes for use in aerospace manufacturing including basic metallurgy and orbital tube welding.

Pre-requisite(s): ARST 2700

Schedule type: Web

ARST 2700 – Advanced Mechanical Assembly 4 credit hours

Lecture Hours: 1; Lab Hours: 3 This course develops skills in mechanical assembly needed for technicians in the aerospace manufacturing industry emphasizing safety and professionalism.

Flat Fee: 235

Pre-requisite(s): ARST 1780

Schedule type: Independent Study

ARST 2770 – Surface Prep, Coatings & Adhes 4 credit hours

Lecture Hours: 1; Lab Hours: 3 This course provides instruction on the processes and skills for surface preparation and coatings, and on the processes for adhesive bonding.

Flat Fee: 55

Schedule type: Independent Study, Lecture

ARST 2780 – Composite Materials 1 credit hour

Lecture Hours: 1; Lab Hours: 0 This course provides instruction on the processes and concepts for composite materials.

Schedule type: Independent Study, Lecture, Web

ARST 2790 – Fabrication Aero Manuf 3 credit hours

Lecture Hours: 1; Lab Hours: 2 This course provides instruction on the processes and tools used in fabrication in the aerospace industry including power saws, drills, milling equipment and precision measuring.

Flat Fee: 50

Pre-requisite(s): ARST 2700

Co-requisite(s): ARST 2700