

**COURSES**



- LEVEL 1
- LEVEL 2
- LEVEL 3
- LEVEL 4

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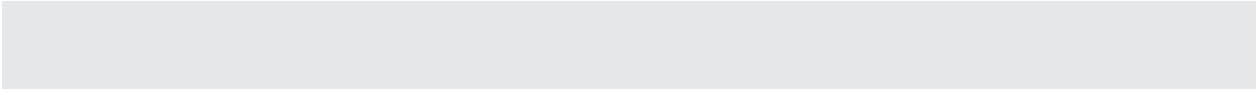
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**POSTSECONDARY OPTIONS**

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH

**WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES**



# COURSE INFORMATION

COURSE NAME	COURSE NUMBER AND CREDITS	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Introduction to Aircraft Technology	8727 (1 credit)	admission criteria in the student handbook	10
Aircraft Airframe Technology Dual Credit	8724-6 (2 credits)	Intro to Aircraft & SWTJC requirements	11
Practicum in Transportation Systems Dual Credit	8729-6 (3 credits)	Aircraft Airframe Technology Dual Credit	12

## COURSE DESCRIPTIONS

### Introduction to Aircraft Technology:

This course is designed to teach the theory of operation of aircraft airframes, power plants, and avionics systems and associated maintenance and repair practices. Aircraft services include knowledge of the function, diagnosis, and service of the electrical, electronic, hydraulic, pneumatic, airframe, mechanical, and power plant components of aircraft. Safety regulations will be explored through OSHA.

### Aircraft Airframe Technology Dual Credit:

College Credits: AERM 1203, 1210, & 1315

This course is designed to teach basic theory of operation of aircraft, its power plants (engines), airframe (structure), and avionic system (instrumentation) along with associated maintenance and repair practices to keep these systems working. Student will understand the theory of how they all work to keep aircraft flying.

### Practicum in Transportation Systems Dual Credit:

College Credits: AERM 1314, 1350, & 2231

Laughlin Air Force Base becomes the classroom for this course, providing hands-on training on T-1, T-6, and T-38 aircraft. Students learn about removing, replacing, and installing components of different systems that make an aircraft fly. They are trained on servicing fuel and oil in the engines and hydraulic systems of the aircraft and learn the proper use of manuals and publications to maintain aircraft.

**Courses in yellow are advanced courses for endorsement purposes.**

