



TRANSPORTATION & ENGINEERING SECTOR

Aviation Pathway (222)

Offered at Canyon High School

Vocational Education Level	Course Name	Course Number	Articulations	Voc. Ed Level Label
01	Career Focus Aviation	O724	OCC	Introductory
02	Aviation I	O719	OCC	Concentrator
02	Aviation II	O722	OCC	Concentrator
03	Professional Internship	O745		Capstone

CAREER FOCUS AVIATION

O 724

This course explores various careers in the aviation and aeronautical industries and prepares students for upper level courses in this pathway. Instruction includes a study of the development of aircraft and the aviation/aeronautical industries. Through a project-based learning approach, students will learn about the scientific and mathematical principles of flight and aerodynamics. Students will learn the requirements and opportunities for careers and post-secondary education in aviation and aeronautics. They will develop a personal career/life plan while also practicing valuable foundation skills in technical reading and writing, public speaking and technology.

AVIATION I

O 719

Students in this course will learn the principles of private pilot flight and navigation. The concepts taught will cover the first half of the FAA Private Pilot Knowledge Test. Topics will include the principles of flight and aerodynamics, aircraft structure, controls/instruments and systems. Through the use of flight simulators, the techniques of piloting and navigation will be demonstrated and practiced. Physics and geometry concepts are taught and applied to aircraft design, flight control, and navigation. This is part one of a two-part sequence that covers ground school only. It provides eligibility to sit for the Private Pilot Knowledge test. Students wishing to be eligible to sit for this test would need to complete both Part I and II. The required flight hours for the private pilot's license are not part of these courses.

AVIATION II

O 722

Students in this course will learn the principles of private pilot flight and navigation. The concepts taught will cover the second half of the FAA Private Pilot Knowledge Test. Topics will include the principles of flight and aerodynamics, aircraft structure, controls/instruments and systems. Through the use of flight simulators, the techniques of piloting and navigation will be demonstrated and practiced. Physics and geometry concepts are taught and applied to aircraft design, flight control, and navigation. Aviation II is the second course in the Part I "ground school" only course that provides eligibility to sit for the Private Pilot Knowledge test. The required flight hours for the private pilot's license are not part of these courses.

PROFESSIONAL INTERNSHIP

O 745

This practicum and internship course allows the students to apply academic and career readiness skills in a workplace environment. Instruction will combine standards-based classroom instruction with extended on-site industry experience. Students will learn all aspects of Professionalism, and apply 21st Century Skills of Communication, Collaboration, Critical Thinking, Creativity and Problem Solving in a real world setting. Interested students can prepare to take the WorkKeys National Career Readiness Certificate.



Canyon High School Pathways

<http://www.canyonhighschool.org/academics/CTE>

El Modena High School Pathways

http://www.elmodenahs.org/apps/pages/index.jsp?uREC_ID=382265&type=d&pREC_ID=879439

Orange High School Pathways

<http://www.orangeusd.org/ohs/docs/pathwaysflyer.pdf>

Villa Park High School Pathways

http://www.villaparkhigh.org/apps/pages/index.jsp?uREC_ID=419726&type=d&pREC_ID=917448

