



Career Cluster: Transportation, Distribution & Logistics **Career Cluster Pathway:** Aviation
Program of Study: An Educational Planning Guide for High School and Beyond

| | Grade | English | Math | Science | Social Studies | Fitness/Health and Visual or Performing Arts | Recommended Career and Technical Education (CTE) Courses and Other Electives | Graduation Requirements | SAMPLE Occupations Related to this Pathway |
|--------------------------|-----------|-----------------------|----------------------------------|--------------------|--------------------------|--|--|--|---|
| Secondary Options | 9 | English 9 (1 credit) | Algebra (1 credit) | Science (1 credit) | | Health/Fitness (1 credit) Fine Art (1 credit) | Elective class (1 credit) | <u>H.S. Credit Requirements (24 credits total):</u> 4.0 credits – English 3.0 credits – Social Studies 3.0 credits – Math 2.0 credits – Science 2.0 credits – Health and Fitness 1.0 credits – Visual or Performing Arts 1.0 credits – Occupational Education 8 credits – Occupational Education or Electives <u>Additional Skills Center opportunities:</u> <ul style="list-style-type: none"> • Possible college articulated credits each year at the Skills Center • Pre-apprenticeship programs available for airplane mechanics • Possible Industry Certificate at end of course | Occupations requiring less than a Baccalaureate Degree ▶ Private Pilot ▶ Air Traffic Controllers ▶ Flight Instructor ▶ Airframe & Power Plant Tech ▶ Electrical Installers/Techs ▶ Airframe Mechanics ▶ Power Plant Mechanics ▶ Avionics/Electronics Techs ▶ Ramp Service Personnel ▶ Fire & Crash Rescue ▶ Flight Attendant ▶ Aviation Maintenance Tech ▶ Airplane Dispatch Clerk ▶ Commercial Pilot ▶ Security Screener Occupations requiring a Baccalaureate Degree ▶ Airline Pilot ▶ Manufacturing Engineer ▶ Aeronautical Engineer ▶ Astronautical Engineer ▶ Systems Engineer ▶ Airport Manager ▶ Material Science Engineer ▶ Electrical Engineer |
| | 10 | English 10 (1 credit) | Geometry (1 credit) | Science (1 credit) | World Studies (1 credit) | Fitness (1 credit) | Elective class (1 credit) | | |
| | 11 | English 11 (1 credit) | | | US History (1 credit) | | <ul style="list-style-type: none"> • Aviation Tech 1 (3 credits) possible lab science credit. * possible college credits w/”B” grade or higher • Elective class (1 credit) | | |
| | 12 | English 12 (1 credit) | Algebra 2 or CTE Math (1 credit) | | CWI (1 credit) | | <ul style="list-style-type: none"> • Aviation Tech 2 (3 credits) * possible college credits w/”B” grade or higher | | |

Courses shown in **RED** indicate courses articulated with local colleges. College credit can be earned through those courses.

| | | | | | |
|-------------------------------|------------------------|---|---|--|---|
| Post Secondary Options | 13 and Beyond | Complete a registered apprenticeship and/or enter directly into the workforce | Earn a Technical Certificate from a community or technical college and enter the workforce | Earn an Associate's Degree from a community or technical college and enter the workforce | Earn a Baccalaureate Degree and enter the workforce |
| | Program Options | <p>Possible apprenticeship options</p> <ul style="list-style-type: none"> Aircraft Mechanics (Airframe & Powerplant-A&P) | <p><u>Portland Community College:</u></p> <ul style="list-style-type: none"> Aviation Maintenance Tech Cert Aviation Maintenance Tech: Airframe Cert Aviation Maintenance Tech: Powerplant Cert <p><u>Mt. Hood Community College:</u></p> <ul style="list-style-type: none"> Mechanical Engineering Cert <p><u>Lower Columbia Community College:</u></p> <ul style="list-style-type: none"> Machinist Cert Manufacturing Occupations Cert <p><u>Green River Community College:</u></p> <ul style="list-style-type: none"> Aerospace & Manufacturing-Machining Maintenance 1 Cert Aerospace & Manufacturing-Machining Maintenance 2 Cert Aerospace & Manufacturing-Precision Maintenance 1 Cert Aerospace & Manufacturing-Precision Maintenance 2 Cert Aerospace & Manufacturing-Quality Assurance and Inspection Cert Advanced Aviation Knowledge Cert Aircraft Dispatcher Cert Airline Dispatcher Completion Cert Aircraft Dispatcher Completion Cert Airport & Air Transportation Management Cert Basic Aviation Knowledge Cert Basic Aviation Terminology Cert Basic Weather Observer Cert International Flight Planning Cert Machining & Manufacturing Tech-Cert <p><u>Clark Community College:</u></p> <ul style="list-style-type: none"> Manual Machining Cert Machining Technician Cert | <p><u>Portland Community College:</u></p> <ul style="list-style-type: none"> Aviation Science Airplane-AAS Aviation Science Helicopter-AAS Aviation Maintenance Tech-AAS <p><u>Embry-Riddle (World-Wide):</u></p> <ul style="list-style-type: none"> Aeronautics-AA Aviation Business Admin-AA Aviation Maintenance Science-AA Engineering Fundamentals-AA Technical Management-AA <p><u>Lower Columbia Community College:</u></p> <ul style="list-style-type: none"> Advanced Manufacturing Tech-AAS Mechanical/Civil/Aeronautical/Industrial Material Sciences-AST2 <p><u>Mt. Hood Community College:</u></p> <ul style="list-style-type: none"> Mechanical Engineering -AAS <p><u>Green River Community College:</u></p> <ul style="list-style-type: none"> Unmanned Aerial Systems-AAS Air Traffic Control-AAS Air Transportation-AAS Airline Dispatch-AAS Airport Management-AAS Commercial Pilot-AAS Machining & Manufacturing Tech-AAS <p><u>Clark Community College:</u></p> <ul style="list-style-type: none"> Pre-Engineering-AST2 Mechanical, Civil & Aeronautical Engineering-AST2 | <p><u>Central Washington University:</u></p> <ul style="list-style-type: none"> Aviation Management-BS Aviation Professional Pilot-BS <p><u>Embry-Riddle (World-Wide):</u></p> <ul style="list-style-type: none"> Aeronautics-BA Aviation Business Admin-BA Aviation Maintenance Science-BA Technical Management-BA <p><u>Washington State University:</u></p> <ul style="list-style-type: none"> Materials Science and Engineering-BS Mechanical Engineering-BS Electrical Engineering-BS <p><u>Portland State University</u></p> <ul style="list-style-type: none"> Electrical Engineering-BS Mechanical Engineering-BS <p><u>University of Washington</u></p> <ul style="list-style-type: none"> Aeronautical & Astronautical Engineering-BS |