Transportation, Distribution, and Logistics Career Cluster

The Transportation, Distribution, and Logistics career cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, and mobile equipment and facility maintenance. This career cluster includes a diverse spectrum of occupations, ranging from automotive mechanic, avionics technician, automotive entrepreneur, pilots to logistics planning professionals.

Statewide Program of Study: Aviation Pilots

The Pilots and Aviation Operations program of study focuses on occupational and educational opportunities associated with the principles and science of flight. This program of study includes the exploration and understanding of aviation engineering, air navigational aids, air traffic controls, and communications equipment to ensure conformance with federal safety regulations.

Secondary Courses for High School Credit

Level 1
- Principles of Transportation Systems
- Introduction to Aircraft Technology
- Introduction to Aerospace and Aviation

Level 2
- Introduction to Unmanned Aerial Vehicles (UAV)

Level 3
- Aviation Ground School
- Aerospace Engineering (PLTW)
- Instructor Ground School (TBD)

Level 4
- Practicum in Transportation Systems
- Practicum in Transportation Systems + Extended Practicum in Transportation Systems
- Career Preparation for Programs of Study
- Career Preparation for Programs of Study + Extended Career Preparation
- Scientific Research and Design

Example Postsecondary Opportunities

Apprenticeships
- Air Transport Pilot Apprentice

Associate Degrees
- Airline/Commercial/Professional Pilot and Flight Crew

Bachelor's Degrees
- Airline/Commercial/Professional Pilot and Flight Crew

Additional Stackable IBCs/License
- Airman Certificate

Aligned Advanced Academic Courses

AP or IB	AP Calculus BC
	AP Physics C: Mechanics
Dual Credit	Dual credit offerings will vary by local education agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

Example Aligned Occupations

Commercial Pilots
Median Wage: $108,120
Annual Openings: 663
10-Year Growth: 20%

Airline Pilots, Copilots, and Flight Engineers
Median Wage: $180,060
Annual Openings: 1,204
10-Year Growth: 14%

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	• Shadow a commercial airline pilot for to learn about pre- and post-flight routines • Intern at a technology company that produces drones to learn about aerial robotics and drone pilot requirements
Expanded Learning Opportunities	• Explore virtual aviation websites • Participate in SkillsUSA

Aligned Industry-Based Certifications

- FAA Part 107 Remote Drone Pilot

Aviation Pilots

Successful completion of the Pilots and Aviation Operations program of study will fulfill requirements of the Business and Industry endorsement.

Course Information

Level 1

Course	Prerequisites | Corequisites	Career Clusters
Principles of Transportation Systems* 13039250 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Introduction to Aircraft Technology* 13039350 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
Introduction to Aerospace and Aviation N1304672 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	

Level 2

Course	Prerequisites | Corequisites	Career Clusters
Introduction to Unmanned Aerial Vehicles (UAV) N1304670 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Principles of Transportation Systems **Recommended Corequisites:** None	

Level 3

Course	Prerequisites | Corequisites	Career Clusters
Aviation Ground School N1304675 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** Algebra I, Introduction to Unmanned Aerial Vehicles, Introduction to Aircraft Technology, or Junior Reserve Officer Training Corps (ROTC) II **Recommended Corequisites:** None	
Aerospace Engineering (PLTW) N1303745 (1 credit)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** At least one credit in a Level 2 or higher course in engineering **Recommended Corequisites:** None	
Instructor Ground School TBD (TBD credit)	**Prerequisites:** TBD **Corequisites:** TBD **Recommended Prerequisites:** TBD **Recommended Corequisites:** TBD	

* Indicates course is included in more than one program of study.

Aviation Pilots

Course Information

	Course	Prerequisites | Corequisites	Career Clusters
Level 4	**Practicum in Transportation Systems*** First Time Taken: 13040450 (2 credits) Second Time Taken: 13040460 (2 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
	Practicum in Transportation Systems + Extended Practicum in Transportation Systems* First Time Taken: 13040455 (3 credits) Second Time Taken: 13040465 (3 credits)	**Prerequisites:** None **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
	Career Preparation for Programs of Study* First Time Taken: 12701121 (2 credits)	**Prerequisites:** At least one Level 2 or higher CTE course **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
	Career Preparation for Programs of Study + Extended Career Preparation* First Time Taken: 12701141 (3 credits)	**Prerequisites: :** At least one Level 2 or higher CTE course **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	
	Scientific Research and Design 13037200 (1 credit)	**Prerequisites:** Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics **Corequisites:** None **Recommended Prerequisites:** None **Recommended Corequisites:** None	

* Indicates course is included in more than one program of study.

For additional information on the **Transportation, Distribution, and Logistics** career cluster, contact cte@tea.texas.gov or visit https://tea.texas.gov/cte

Aviation Pilots