

Aviation Related Careers

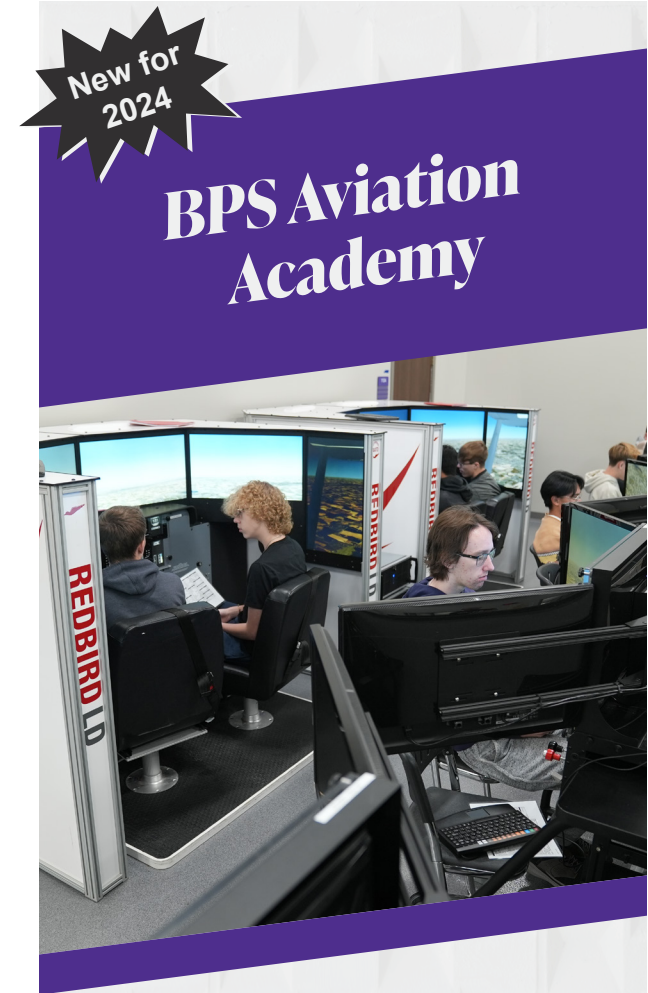
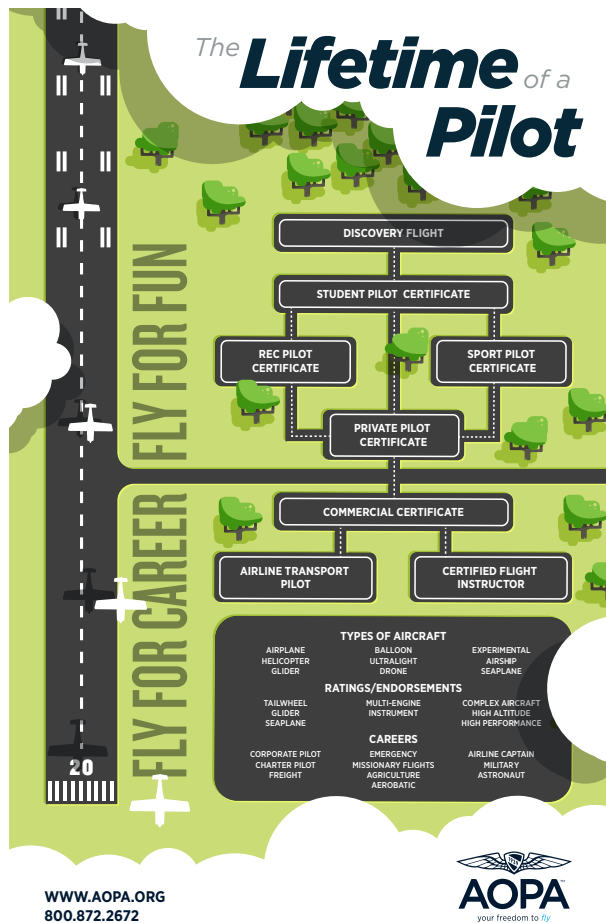
Flight/Cabin Attendant
Pilot/Co-Pilot
Air Traffic Control
Aeronautical Engineer
Aircraft Mechanic
Airport Planner
Airport Security
Manager
Airfield Operations
Specialist

Administrative Jobs
Airline Operations
Agent
Airport Operations
Manager
Airport Manager
Airline Manager
Airport Director
Meteorologist

Fields integrating Drone technology

Real Estate
Construction
Mining
Film Industry
Public Safety
Insurance

Journalism
Agriculture
Transportation
Energy
Telecommunication



Frank Kumor
Career Center

2812 Arboretum Drive
Bellevue NE 68005

BPS Aviation Academy

Program Location: Frank Kumor Career Center

Courses: Aviation Academy 1A and 1B

Grades: 11th, 12th

Course Length: 1 year, 4 credits

Career Field: Skill and Technical Sciences
(Transportation)

Description: The BPS Aviation Academy program focuses on preparing students for careers in aviation-related industries and prepares students for the Federal Aviation Administration (FAA) Private Pilot Knowledge Test and the FAA Commercial Remote Pilot Certificate (Part 107) exam. The year-long program will allow students pursuing the certifications to have hands-on experiences related to the aircraft they may one day operate through state-of-the-art aircraft simulators and aerial drones integrated throughout the course. The year-long program consists of the following content and will include a variety of field trips and experiences related to the aviation industry.

The units covered during these courses include:

Introduction to Flight

Students will look closely at the aircraft they may one day operate. Students will explore the aircraft types used today and how aircraft are made and fly. They will study the forces of flight—lift, weight, thrust, and drag—including how to make key calculations. Students will examine aircraft design, stability, aircraft controls, and maneuvering.

Aircraft Systems & Performance

Students will take an in-depth look at the systems that make aircraft work, including the aircraft engine, or powerplant, and fuel systems. Throughout the unit, students will learn about flight instruments and how to identify and troubleshoot common problems. This unit also covers required aircraft documents and factors that affect aircraft performance.

The Flying Environment

This unit will begin to prepare students to take either the FAA Private Pilot Knowledge Test or the FAA Commercial Remote Pilot Certificate (Part 107) exam. Topics include preflight procedures, airspace, radio communications, aviation terminology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures.

Flight Planning

In this unit, students will complete their preparation for certification exams and learn about pilot and aircraft qualifications, cross-country flight planning, weight and balance, performance and limitations, human factors, chart use, night operations, navigation systems, and aeronautical decision-making. Students will be provided the opportunity to participate in multiple practice examinations. The district may arrange for students to take the FAA Private Pilot Knowledge Test written exam at the end of this course.

UAS (Drone) Operations

The UAS Operations unit will cover many topics surrounding UAS missions, from mission planning to UAV performance to crew resource management. Upon completing this course, students may take the FAA Commercial Remote Pilot Certificate (Part 107) exam.



Transportation to and from the student's high school will be provided.

