



Aviation Science/Flight

Approved by New York State Education Department (NYSED)



AVIATION SCIENCE/FLIGHT course provides the skills and related flight background required by the aviation industry. Students will receive ground school and flight instruction in a single engine training aircraft. All flight time earned will be recorded in student logbooks, and can be credited toward pilot certification. Students will also use computers with flight training simulator programs and graphics as well as academic software to cover aviation science areas and FAA exam material.

Work Environment

The professional pilot may work in several environments: commercial airlines utilizing large jets, regional airlines with smaller jets or turboprop airplanes, the military or private businesses. Other positions may be in air traffic control, airport management, air carrier operations, or related governmental positions.

Career Opportunities

Air Traffic Controller
Airport Management
Aviation Sales
Aviation Law
Dispatcher
Flight Instructor
FAA Flight Service Specialist
Ground Instructor
Passenger Agent
Pilot (Airlines, Corporate, General)
Tower Operations

Advanced Standing Available*

Five Towns College
Embry Riddle Aeronautical University

Vaughn College of Aeronautics

*College credits may be earned by meeting the criteria of articulation agreements (see listing in Handbook) Tech has established with SELECT colleges. In addition, check directly with the post-secondary institutions for any additional credits they may offer.

Academic credits integrated:

Tech Math, Tech Phys Sci, Eng. 12, CFM, Comp App

CTE Endorsement

Students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, be High School diploma eligible, and pass the following exam: Federal Aviation Administration (FAA) Private Pilot Written Knowledge Exam (PPWKE).

Student Supplies

Additional supplies will need to be purchased for this program.

Average Annual Wage

Salaries are subject to market fluctuations.

For the most current updates on local & national wages go to job search engines on the internet and www.careerzone.ny.gov

Course Outline

- Aviation History
- Airplanes and Aerodynamics, Aircraft Safety
- Airplane Instruments, Engine and Systems
- Airports, Air Traffic Control and Airspace
- Federal Aviation Regulations
- Airplane Performance and Weight and Balance
- Aeromedical Factors and Aeronautical Decision Making
- Aviation Weather and Weather Services
- Navigation, Charts, Publications, Flight Computers
- Navigation Systems
- Cross-Country Flight Planning
- Preparation for actual FAA Exams