Aviation Tech/Prof Piloting (ATP)

Courses

**ATP A100 Private Pilot Ground School 3 Credits**
Prepares students for FAA Private Pilot Knowledge Test. Includes basic aerodynamics, aircraft engine operation and flight instruments, navigation, weather information and dissemination services. Covers FAA regulations, the Aeronautical Information Manual, radio communication and navigation.

**Special Note:** Appropriate test score on English placement test. SAT Verbal section or ACT English test will waive the ENGL A109 or WRTG A110 prerequisite. Appropriate test score on mathematics placement test will waive the MATH A054 prerequisite.

**Prerequisites:** (ENGL A109 with a minimum grade of C or WRTG A111 or WRTG A211 or WRTG A212 or WRTG A213 or WRTG A214 or WRTG A110 with a minimum grade of C or Enhanced ACT English with a score of 22 or Original ACT English with a score of 22 or SAT Critical Reading Score with a score of 530 or SAT Verbal Score with a score of 530 or SAT Verbal with a score of 530) and (MATH A054 with a minimum grade of C or MATH A055 or MATH A105 or MATH A121 or MATH A151 or MATH A152 or MATH A155 or MATH A221 or MATH A251 or MATH A252 or MATH A253).

**ATP A101 Pre-Professional Flying 2 Credits**
Provides beginning flight instruction for students intending to become professional pilots.

**Special Note:** Open-entry/open-exit. Three hours in Flight Training Device required.

**Registration Restrictions:** ATP A100 or concurrent enrollment, or passing score on Private Pilot Knowledge Test. Department approval required. FAA Student Pilot/Class II Medical Certificate required.

**ATP A103 Part 61 Private Pilot 2 Credits**
Provides beginning flight instruction for students intending to become professional pilots, receive their Federal Aviation Administration Private Pilot Certificate, or convert other certification to include a Airplane Single Engine Land.

**Special Note:** Open-entry/open-exit. Three hours in Flight Training Device required. This course does not apply toward the Restricted ATP certificate. Fees will vary based on an hourly fee.

**Registration Restrictions:** ATP A100 or concurrent enrollment or passing score on Private Pilot Knowledge Test. Department approval required. FAA Student Pilot and current FAA medical certificate required.

**ATP A104 Flying Alaska Bush 3 Credits**
Provides specialized discussion concerning unique flying conditions faced by Alaskan pilots. Covers basic aerodynamics, mountain flying, skis, floats, wheels, judgment of unimproved landing areas, characteristics of Alaskan weather, external loads, and emergency field maintenance.

**Registration Restrictions:** Private Pilot Certificate or higher rating.

**ATP A116 Instrument Ground School 3 Credits**
Provides preparation for the Federal Aviation Administration (FAA) Instrument Pilot Knowledge Test. Includes attitude instrument flying, air traffic control and navigation facilities, pilot responsibilities, Instrument Flight Rules (IFR), en route and approach navigation charts, airspace and airway route system.

**Special Note:** Two hours in a Flight Training Device (FTD) is required.

**Registration Restrictions:** FAA Private Pilot Certificate or equivalent.

**ATP A126 Instrument Flying 2 Credits**
Fulfills FAA flight training requirements for an instrument airplane rating under FAR Part 141.

**Special Note:** Open-entry/open-exit. Twelve hours in Flight Training Devices required.

**Registration Restrictions:** Meet course prerequisites or Private Pilot Certificate. Departmental approval required.

**Prerequisites:** ATP A101 and ATP A116 or concurrent enrollment.

**ATP A200 Commercial Ground School 3 Credits**
Provides preparation for the Federal Aviation Administration's Commercial Pilot Knowledge Test. Includes advanced studies of Private Pilot topics, high performance and complex aircraft, commercial flight maneuvers and commercial Federal Aviation Regulations.

**Registration Restrictions:** FAA Private Pilot Certificate or equivalent.

**ATP A218 Commercial Flying I 1.5 Credit**
Provides flight training to review basic private pilot maneuvers and to introduce the advanced flight maneuvers required of a commercial pilot.

**Special Note:** Open-entry/open-exit.

**Registration Restrictions:** Private Pilot Certificate. Department approval required.

**Prerequisites:** ATP A126 and ATP A200 or concurrent enrollment.

**ATP A219 Commercial Flying II 1.5 Credit**
Provides flight training to build proficiency and experience in cross-country flying and night operations. Includes introduction to complex airplanes.

**Special Note:** Open-entry/open-exit.

**Registration Restrictions:** Department approval

**Prerequisites:** ATP A218.

**ATP A220 Commercial Flying III 2 Credits**
Develops proficiency required to pass the FAA Commercial Pilot Practical Flight Test.

**Special Note:** Open-entry/open-exit.

**Registration Restrictions:** Department approval required. Concurrent enrollment in ATP A305 is required for BSAT majors.

**Prerequisites:** ATP A219.

**ATP A225 Tailwheel Airplane Transition 1 Credit**
Intended for pilots wishing to transition from tricycle gear airplanes to tailwheel airplanes.

**Special Note:** Open-entry/open-exit.

**Registration Restrictions:** FAA Commercial Pilot Airplane Single-Engine Certificate

**Prerequisites:** ATP A220 with a minimum grade of C.
ATP A231 Search, Survival, and Rescue 3 Credits
Deals with situations that develop from lost or downed aircraft; survey of principles of survival in all types of climates, with emphasis on Arctic environments. Organization for search and rescue with emphasis on systems and operational methods used in Alaska.
Prerequisites: ATA A233.

ATP A232 Advanced Aviation Navigation 3 Credits
Examines the earth's surface and mapping methods, Low, High and International En Route navigation and approach charts. Also examines advanced navigation and flight display systems technology, the theory and operation of Global Positioning System (GPS) and Automatic Dependent Surveillance-Broadcast (ADS-B) navigation equipment. Course also looks at future trends in aeronautical navigation.
Prerequisites: ATP A116.

ATP A235 Elements of Weather 3 Credits
Defines weather elements and methods of measurement: composition of atmosphere, description of atmospheric processes and their movement, general circulation of atmosphere, wind and secondary circulation, weather reports and forecasts, and weather satellites.

ATP A251 Flight Dispatcher Overview 3 Credits
Provides an overview of the flight dispatcher profession, prepares students for the transition from the academic to vocational environment. Requires extensive study in meteorology, flight planning considerations and Federal Aviation Regulations used by dispatchers.
Prerequisites: ATP A100 and ATP A235 and (ATC A143 or ATP A116) and (ATC A144 or ATP A200) and (ATA A233 or ATC A325).

ATP A300 CFI Ground School 3 Credits
Prepares students for the Federal Aviation Administration (FAA) Certified Flight Instructor Knowledge Test. Includes principles of teaching and learning, analysis of student motivation, flight training syllabus, and the flight instructor's role and responsibilities. Covers performance and analysis of flight training maneuvers, advanced aerodynamics, fundamentals of instrument flight, flight training publications, and Federal Aviation Regulations (FARs).
Registration Restrictions: Departmental approval required.

ATP A301 CFI Flying 2 Credits
Fulfills Federal Aviation Administration (FAA) flight training requirements for obtaining a Certified Flight Instructor (CFI) certificate under Federal Aviation Regulations (FAR) Part 141.
Special Note: Open entry/open exit.
Registration Restrictions: FAA Commercial Pilot Certificate with Instrument Rating or equivalent. Departmental approval required.
Prerequisites: ATP A220 and ATP A300 or concurrent enrollment.

ATP A305 Airplane Multiengine Land Rating 2 Credits
Provides flight instruction for Professional Piloting students seeking the Federal Aviation Administration (FAA) Airplane Multiengine Land Rating.
Special Note: Open entry/open exit.
Registration Restrictions: Department approval
Prerequisites: ATP A220 or concurrent enrollment.

ATP A320 Flight Dynamics 3 Credits
Applies selected physical and mathematical principles to the analysis and prediction of aircraft performance. Presents general methods for analyzing and predicting aircraft performance in all flight regimes. Builds on knowledge introduced in previous pilot ground and flight courses, aviation weather courses, and science and mathematics courses.
Registration Restrictions: Junior or Senior standing. Departmental approval required.
Prerequisites: ATP A116 with a minimum grade of C and ATP A126 with a minimum grade of C and ATP A200 with a minimum grade of C and ATP A235 with a minimum grade of C and (MATH A121 with a minimum grade of C or MATH A151 with a minimum grade of C or MATH A152 with a minimum grade of C or MATH A155 with a minimum grade of C or MATH A159 with a minimum grade of C or MATH A221 with a minimum grade of C or MATH A251 with a minimum grade of C or MATH A252 with a minimum grade of C or MATH A253 with a minimum grade of C).

ATP A332 Transport Aircraft Systems 3 Credits
Describes and examines the components of transport aircraft systems, their design, performance, capabilities, limitations, interrelationships, and contribution to the operation, safety, efficiency and economy of the aircraft.
Prerequisites: ATP A200.

ATP A351 Aircraft Dispatcher Operations 3 Credits
Prepares students for the practical application of previously acquired knowledge necessary to perform flight dispatcher functions. Focuses on the effects of weight and balance, performance, and flight characteristics in normal and abnormal flight.
Prerequisites: ATP A251.

ATP A405 Additional CFI Rating 2 Credits
Provides flight instruction for Professional Piloting students seeking additional ratings on their Flight Instructor Certificate, e.g., Instrument and/or Multi-engine.
Special Note: Open-entry/open-exit.
Registration Restrictions: Certified Flight Instructor Certificate required. Department approval required.

ATP A433 Aerospace Physiology 3 Credits
Surveys and explores the physiological information significant to pilots and others in the aviation community. Discusses the importance of physiological factors involved in flight.
Prerequisites: ATA A331 with a minimum grade of C.