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 WRTG A110 prerequisite. Appropriate test score on mathematics placement test will waive the MATH A054 prerequisite.

Prerequisites: 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.

Registration Restrictions: Department approval, FAA Student Pilot Certificate and FAA Class II Medical Certificate required. Prerequisites can be waived with a passing score on Current Private Pilot Knowledge Test.

Prerequisites: ATP A100 with a minimum grade of B.

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 A106 Briefing and Pre-Flight Planning 1 Credit
Fulfills FAA flight training requirements for an instrument airplane rating under FAR Part 141.

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.

Registration Restrictions: Department approval and, if course prerequisite is not met, FAA Private Pilot Certificate and current FAA second class medical certificate

Prerequisites: ATP A116 with a minimum grade of C 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 A116 with a minimum grade of C and ATP A200 with a minimum grade of C 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 with a minimum grade of C.

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

Prerequisites: ATP A219 with a minimum grade of C.

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.
Aircraft Systems and Methods

Aircraft Systems and Methods: 

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 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 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
Addresses Federal Aviation Administration (FAA) flight training requirements and required knowledge 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 with a minimum grade of C and ATP A300 with a minimum grade of C or concurrent enrollment.

ATP A305 Airplane Multiengine Land Rating 2 Credits
Provides flight and ground 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 with a minimum grade of C 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, science, and mathematics courses.
Registration Restrictions: Junior or senior standing
Prerequisites: AMT A171 with a minimum grade of C and ATP A200 with a minimum grade of C and (MATH A151 with a minimum grade of C or MATH A152 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 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.