



ASSOCIATE DEGREE OF APPLIED SCIENCE AERONAUTICS (PPP)

PROGRAM DESCRIPTION

The Associate Degree Program is designed for the student interested in pursuing a career as a professional pilot flying passengers or freight. These opportunities include and are not limited to regional/major airlines, charter industry, government, general aviation, corporate flight department, air ambulance, aircraft industry etc.

This program prepares the beginning student to take their Private Pilot Certificate FAA knowledge exam, oral exam, and flight practical exam. On completing their Private Pilot Certificate, the student proceeds on to add the Instrument Rating. This rating allows the student to use the aircraft's instruments to navigate without visual ground references.

The next step is for the student to prepare for their Commercial Pilot Certificate. The Commercial Pilot Certificate with instrument rating allow the individual to act as a pilot for compensation or hire. This certificate has two classes, single engine land and multi engine land. The student must select one of these two classes for their Commercial Pilot Certificate. Once completed with the Commercial Pilot Certificate, the student has four Elective options. They are: (1) Additional Commercial Class (either single engine or multi engine depending on what class was selected for the Commercial Pilot Certificate), (2) Certificated Flight Instructor [CFI], (3) Certificated Flight Instrument Instructor [CFII], Certificated Multi Engine Instructor [MEI].

In the Associate Degree Program there are eight Aviation Academic Courses: Advanced Aerodynamics, Advanced Aircraft Systems, Advance Aircraft Familiarization, Aviation Weather, Crew Resource Management, Federal Aviation Regulations, and General Physics with accompanying General Physics Lab to help round out the program. If a student selects a Flight Instructor Elective, an additional course, Fundamentals of Flight Instruction, must be completed. According to the State of Ohio law, there will be six General Academic Courses.

ELECTIVE COURSE OPTIONS

A student may elect to obtain their Commercial Pilot Certificate in a class [either single engine or multi engine]. They then may select the following elective options: (1) Commercial Additional Class [either single engine or multi engine depending on class selected for the Commercial Pilot Certificate]; (2) Certificated Flight Instructor [CFI]; (3) Certificated Flight Instrument Instructor [CFII]; (4) Certificated Multi Engine Instructor

[MEI]. Students will build their flight time for their desired occupational choice. The student is responsible for any additional costs associated with elective options.

PROGRAM OBJECTIVES

Upon completion of the program, the student should be able to:

- Fly single engine or multi engine aircraft (depending on elective course)
- Instruct VFR or IFR student pilots' aircraft (depending on elective course)
- Conduct flights with passengers or cargo for compensation for hire
- Understand aviation meteorological charts and a symbology associated with safe flight in visual and instrument flight
- Think critically as a professional pilot in the aviation industry

POTENTIAL CAREER OPPORTUNITIES

Potential entry level job titles include but are not limited to: Part 135 aircraft charter, corporate flight department, flight instructor, aerial photography, surveying, military aviation, bush pilot/remote re-supply, medical evacuation, firefighting and spotting, Federal and State Government positions, drug enforcement, pipeline and transmission line patrol, and airplane sales/demonstration. Occupations are based on flight hours set by the company. The FAA has set minimum flight hours hiring requirements for Part 121 airlines.

PROGRAM LENGTH

The average length of time for a student taking a full course load is 10-18 months. The enrollment agreement lists the students start date. (quarter system beginning on 1st of the month and ending on the last day of the quarter (ex: 04/01/2018 to 07/023/2018).

BARRIERS FOR EMPLOYMENT

The FAA sets the enrollment requirements, skills required and graduation standards for pilot certificates and ratings. They are published in the FAR/AIM and Airman Certification Standards (ACS) book(s). The ACS has additional references. In addition, the FAA sets the standards for the medical certificates. The FAA holds the right to refuse anyone a pilot certificate(s)/rating(s) and/or medical certificate. Occupational opportunities may be reduced for a criminal record, drug/alcohol offenses and/or low flight time. Commercial pilot jobs require a first or second class medical.

GRADUATION REQUIREMENTS

The FAA sets the course curriculum and standards for certificates and ratings. The FAA makes no exceptions for not meeting the standards. Per the FAA regulations, the student must complete the required lessons and successfully pass all knowledge exams, stage checks, oral exams, and practical exams. All academic courses within a program are graded in accordance to the "Grading & Satisfactory Academic Progress Policy". A cumulative average score of 80% or higher is required to graduate. Graduation credit hours for elective options are: (1) 104.5, (2) 105.0, (3) & (4) 102.5.

CREDENTIALS AWARDED

Associate Degree of Applied Science, Aeronautics

FAA Commercial Pilot Certificate with Instrument Rating for the selected class

FAA Certificate or Rating: (depending on elective)

- Additional Commercial Class (single engine or multi engine)
- FAA Flight Instructor Certificate (CFI, CFII, MEI)

COURSE	COURSE NAME	PREREQUISITE OR CO-REQUISITE	CREDIT HOURS
AV 100	Private Pilot Ground	Co-requisite: AV 100L	4.5
AV 100L	Private Pilot Flight	Co-requisite: AV 100	5.5
AV 200	Instrument Rating Ground	Prerequisites: AV 100, AV 100L Co-requisite: AV 200L	4.5
AV 200L	Instrument Rating Flight	Prerequisites: AV 100, AV 100L Co-requisite: AV 200	3.5
AV 300	Commercial Pilot Ground	Prerequisites: AV 100, AV 100L, AV 200, AV 200L, Co-requisites: AV 300L	4.5
AV 300L 1/2/3	Commercial Pilot Flight 1/2/3	Prerequisites: AV 100, AV 100L, AV 200, AV 200L, Co-requisites: AV 300	10.5
AV 350	Advanced Aerodynamics	Prerequisites: MAT 101, PHY 250/250L	4.5
AV 351	Advanced Aircraft Systems	None	4.5
AV 352	Advanced Aircraft Familiarization	None	3.5
AV 353	Aviation Weather	None	4.5
AV 354	Crew Resource Management	None	4.5
AV 355	Federal Aviation Regulations	None	4.5
AV 450*	Fundamentals of Instruction*	None	4.5
PHY 250	General Physics I	Prerequisite: MAT 101 Corequisite: PHY 250L	4.5
PHY 250L	General Physics I Lab	Prerequisite: MAT 101 Corequisite: PHY 250	3.0
BUS 105	Business Communication	None	4.5
COM 101	Introduction to Communication	None	4.5
ENG 101	English Composition I	None	4.5
IT 101	Info Tech Fundamentals	None	4.5
MAT 101	College Algebra	None	4.5
<u>Select either PSY 101 or SOC 101</u>			
PSY 101	Introduction to Psychology	None	4.5
SOC 101	Introduction to Sociology	None	4.5

ELECTIVES (SELECT ONE)

COURSE	COURSE NAME	PREREQUISITE CO-PREREQUISITE	CREDIT HOURS
<u>Option (1)</u>			
AV 310	Commercial Pilot Additional Class Ground	Prerequisites: AV 100, AV 100L, AV 200, AV 200L, AV 300, AV 300L Co-requisite: AV 310L	4.5
AV 310L	Commercial Pilot Additional Class Flight	Prerequisites: AV 100, AV 100L, AV 200, AV 200L, AV 300, AV 300L Co-requisite: AV 310	2.0

<u>Option (2) *</u>			
AV 400	Certificated Flight Instructor Ground	Prerequisites: AV 100, AV 100L, AV 300, AV 300L Co-requisite: AV 400L	4.5
AV 400L	Certificated Flight Instructor Flight	Prerequisites: Private Certificate, AV 300, AV 300L Co-requisite: AV 400	2.5

<u>Option (3) *</u>			
AV 410	Certificated Flight Instrument Instructor Ground	Prerequisites: AV 100, AV 100L, AV 200, AV 200L, AV 300, AV 300L Co-requisite: AV 410L	2.0
AV 410L	Certificated Flight Instrument Instructor Flight	Prerequisites: AV 100, AV 100L, AV 200, AV 200L, AV 300, AV 300L Co-requisite: AV 410	2.5

<u>Option (4) *</u>			
AV 420	Certificated Multi Engine Instructor Ground	Prerequisites: AV 100, AV 100L, AV 300/300L Co-requisites: AV 420L, AV 450,	2.0
AV 420L	Certificated Multi Engine Instructor Flight	Prerequisites: AV 100, AV 100L, AV 300/300L, Co-requisites: AV 420, AV 450	2.5

Options (2), (3), and (4)

* Per the FAR's, the following options will require the course AV 450 Fundamentals of Instruction. This course is required for the first flight instructor course. There are no prerequisites. This course is an additional 4.5 credit hours