

Associate in Applied Science (A.A.S.) in Aviation Maintenance Technology

PROGRAM OVERVIEW

Aerospace Technology Program Overview

UDC-CC's Aerospace Technology Program offers two related paths of training in aviation: the Aircraft Mechanic's Certification and the Aviation Maintenance Technology Program (Associate's Degree). Both of these aviation activities are centered at UDC-CC's aviation facilities (Hangar #2) at Ronald Reagan Washington National Airport, just south of the old main terminal (Terminal A), next to the taxi parking garage.

Certificate of Completion for Aircraft Mechanic's Certification

This course of study requires successful completion of 40 academic credit hours (eight courses of five credits each), and is approved by the Federal Aviation Administration (FAA) to provide training for certification as an Aircraft Mechanic, with Airframe and Powerplant (A&P) rating. This program meets the requirements of Federal Aviation Regulation (FAR) part 147, and includes about 1900 hours of comprehensive lecture and laboratory instruction and experience. The overall instructional program is conducted in accordance with the provisions of the FAR, with FAA monitoring the instructional quality, technology incorporation, and administrative activities of the Program.

The FAA monitors student exam performance, attendance, and overall quality of performance. The Program provides diverse training for the student to obtain initial job entry-level skills in the aircraft maintenance industry. Training includes developing knowledge and work skills in 45 areas, including: A&P privileges and regulations, hydraulics, electricity, electronics, metal structures, environmental systems, welding, instrumentation, composite materials, turbine and reciprocating engines, propellers, and related systems. The Program faculty endeavors to provide students with a viable combination of knowledge of contemporary aircraft systems, and the skills, knowledge, and attitude of a craftsman-technician. The UDC-CC Certificate of Completion entitles the student to take the FAA administered exams for the A&P Certification. An average student completes the Certificate program in four semesters (approximately two years). To earn the A&P certificate, students must pass four examinations: three written, one oral, and one practical, administered by the FAA. Currently, these written exams may be taken at the UDC-CC airport hanger #2 CATS Testing Center.

Aviation Maintenance Technology (AVMT) Associate's Degree Program

In conjunction with the Certificate Program, a student may take 32 additional credits of instruction and earn an Associate of Applied Science (AAS) in Aviation Maintenance Technology. These additional courses are general education subjects such as technical math, English, physics, geography, graphics, and computer programming, and they are taught on UDC-CC's campus.

ACADEMIC PREPAREDNESS

UDC recognizes the important connection between student success and academic preparedness. Depending on placement test scores and/or equivalent college course work, students may be required to complete co-requisite courses in English. ***Only credits earned for the college-level portion of the co-requisite course pairing count towards degree completion requirements.***

Co-Requisite Courses for English

Course #	Title	Credits	Grade	Semester
ENGL-015	English Fundamentals <i>and</i>	3		
IGED-110C	Foundation Writing I	3		

SEQUENCE OF STUDY

The required courses for the degree program are listed in suggested sequence on the reverse side of this document. Students are expected to complete prerequisite and co-requisite courses as indicated.

- A Prerequisite is a requirement which must be completed prior to enrollment in a particular class. This can be a placement test score or a course. For example, ENGL-111: English Composition I must be taken prior to ENGL-112: English Composition II.
- A Co-requisite is a course that must be taken in the same semester. For example, APCT 104C: Introduction to Applications of Computers Lecture must be taken along with APCT 105C: Introduction to Applications of Computers Lab.

GUIDE TO SUBJECTS – When registering for courses, use the key below to search for courses by subject.

AETC	Architectural Engineering Technology	AVMT	Aviation Maintenance	FSEM	First Year Seminar	MATH	Mathematics
APCT	Applied Computing	ENGL	English	GEOG	Geography	PHYS	Physics

Associate in Applied Science (A.A.S.) in Aviation Maintenance Technology (Below are the required courses arranged in suggested sequence. The eight courses notated with an asterisk (*) and highlighted in **bold** are the only courses required for the certificate program.)

FIRST SEMESTER

Course #	Course Title	Credits	Semester	Grade	Prerequisites
FSEM-101C	First Year Seminar	1			
IGED-110C	Foundation Writing I	3			ENGL-015C or required placement test score
MATH-111C	Technical Mathematics I	3			MATH-105C or required placement test score
AVMT-121C*	Aviation Maintenance Fundamentals	5			
AVMT-122C*	Aviation Materials and Standards	5			AVMT-121C (Co-requisite)
Total Credit Hours:		17			

SECOND SEMESTER

Course #	Course Title	Credits	Semester	Grade	Prerequisites
IGED-111C	Foundation Writing II	3			IGED-110C
MATH-112C	Technical Mathematics II	3			MATH-111C
AVMT-124C*	Aircraft Metallic Structures	5			AVMT-121C (Co-requisite)
AVMT-125C*	Aircraft Systems and Components	5			AVMT-121C (Co-requisite)
IGED-250C	Discovery Technology	3			
Total Credit Hours:		19			

THIRD SEMESTER

Course #	Course Title	Credits	Semester	Grade	Prerequisites
AVMT-211C*	Aircraft Electrical and Electronic Systems	5			AVMT-121C (Co-requisite)
AVMT-212C*	Aircraft Turbine Engine Theory & Overhaul	5			AVMT-121C (Co-requisite)
PHYS-101C	Introduction to College Physics I (Lecture)	3			MATH-105C or equivalent; Co-requisite PHYS-103C
PHYS-103C	Introduction to College Physics I (Lab)	1			Co-requisite PHYS-101C
GEOG-104C	World Physical Geography	3			
Total Credit Hours:		17			

FOURTH SEMESTER

Course #	Course Title	Credits	Semester	Grade	Prerequisites
AVMT-214C*	Aircraft Reciprocating Engine Theory & Overhaul	5			AVMT-121C (Co-requisite)
AVMT-215C*	Aircraft Engine Systems and Components	5			AVMT-121C (Co-requisite)
AETC-205C	Introduction to Computer Aided Design (CAD)	3			AETC-102C
PHYS-102C	Introduction to College Physics II (Lecture)	3			PHYS-101/103C; Co-requisite PHYS-104C
PHYS-104C	Introduction to College Physics II (Lab)	1			Co-requisite PHYS-102C
Total Credit Hours:		17			June 17, 2020

Total Credit Hours for A.A.S. Degree in Aviation Maintenance Technology: 70