AVIATION TECHNOLOGY, AS

NASHUA COMMUNITY COLLEGE

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Program Overview

The Associate of Science Degree in Aviation Technology prepares students for professional careers in aviation maintenance. Graduates may seek employment with airlines, fixed base operators, or aircraft manufacturers.

Nashua Community College is an FAA part 147 approved training facility. Students who complete this program will be prepared to apply for the FAA oral, written, and practical exams for the Airframe and Powerplant Technician Certificate.

The Aviation Technology program places major emphasis on the study of actual aircraft, structures, and powerplants and related systems. The 21-month curriculum includes one summer session and covers a wide variety of subjects concerned with airplanes: reciprocating engines, turbines, fuel systems, propellers, ignition, electrical systems, and hydraulic systems. A great deal of reading is required, as well as the ability to interpret FAA regulations and manufacturer's technical specifications.

Program Outcomes

Upon completion of the degree in Aviation Technology, graduates will be able to:

1. Perform maintenance and inspections on aircraft using FAA and manufacturers' instructions.
2. Perform maintenance on aircraft structures using FAA and manufacturers' instructions.
3. Perform maintenance on aircraft powerplants using FAA and manufacturers' instructions.
4. Inspect and repair aircraft composite structures using FAA and manufacturers' instructions.
5. Communicate effectively both orally and in writing.
6. Demonstrate legal and moral judgment when supervising others.
7. Demonstrate positive work ethics, integrity, and knowledge of work skills.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Admissions Requirements

In addition to the general admission requirements, Aviation Technology applicants should be aware of the following criteria:

1. Excellent English skills in reading, writing, speaking and understanding are required.
2. Student is required to have a valid driver's license.
3. High school courses such as physics, electronics, and computer programming are recommended.
4. Students may be required to purchase approximately $2,000 of tools upon entrance to the program.

Accreditation

FAA approval

Technical Standards

- Must be 18 years of age
- Have a high school degree or equivalent
- Have command of the English language
- Have reading comprehension skills sufficient to read and comprehend service literature
- Have communication skills sufficient to prepare required reports
- Be able to understand and follow both written and oral instructions
- Be able to complete requirements for college-level classes
- Mechanics must lift or pull objects weighing at least 70 pound
- Possess sufficient mobility, dexterity, and visual acuity to perform aviation maintenance
- Have sufficient vision to distinguish colors, read gauges, scopes, diagnostic equipment and information (adaptive equipment acceptable)
- Have sufficient hearing to distinguish various sounds and noises (adaptive equipment acceptable)
- Must be able to tolerate loud noises and vibrations associated with aircraft engines

Estimated Cost of Program (Tuition Only)

In-State $20,240
New England Regional $30,360
Out-Of-State $44,440

First Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
AVTN115N	General Module	7	9	10.00
ENGL101N	College Composition	4	0	4.00
MATH105N	Technical Mathematics	4	0	4.00

First Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
AVTN125N	Airframe Module 1	8	12	12.00
HIST220N	History of Aviation in America	3	0	3.00
	English/Communications Elective			3

Summer Semester

Item #	Title	Class Hours	Lab Hours	Credits
AVTN215N	Airframe Module 2	8	15	13.00

Second Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
AVTN205N	Powerplant Module 1	7	12	11.00
PHYS101N	Physical Science I	3	2	4.00

Second Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
AVTN225N	Powerplant Module 2	8	15	13.00
	Humanities/Fine Arts/ World Language Elective			3
	Total Credits			80