

Aviation Technology

Degree Type

Associate in Science

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 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.

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. High school courses such as physics, electronics, and computer programming are recommended.
3. Students will be required to purchase approximately \$1,300 of tools upon entrance to the program.

Technical Standards: Please refer to the Technical Standards section in this catalog for details regarding this program.

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.
8. Exercise a desire to continue professional development and lifelong learning.
9. Successfully pass the FAA airframe and powerplant certification examination.
10. Find employment directly related to the field of study.

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

First Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
ENGL101N	College Composition	4	0	4
AVTN101N	Maintenance Forms & Records	2	3	3
AVTN102N	Airframe Structures I	2	6	4
AVTN108N	Aviation Drafting & Blueprint Reading	3	0	3
	Quantitative Literacy			4

First Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
AVTN103N	Airframe Structures II	3	6	5
AVTN104N	Materials and Processes	2	3	3
AVTN106N	Aviation Electronics	2	2	3
PSYC130N	Human Relations	3	0	3
	English/Communications			3

Summer Semester (9 Weeks)

Item #	Title	Class Hours	Lab Hours	Credits
AVTN105N	Aircraft Systems	3	3	4
AVTN202N	Airframe Electrical Systems	2	4	3
AVTN203N	Hydraulics & Pneumatics	3	5	5

Second Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
AVTN107N	Digital Logic	2	2	3
AVTN204N	Assembly & Rigging	2	6	4
AVTN206N	Reciprocating Engines I	3	6	5
AVTN208N	Engine Systems	2	3	3
AVTN209N	Aircraft Propellers	2	3	3
PHYS101N	Physical Science I	3	2	4

Second Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
AVTN207N	Reciprocating Engines II	3	6	5
AVTN210N	Turbine Engine & Systems	3	3	4
AVTN211N	Carburetion & Fuel Systems	2	3	3
AVTN212N	Engine Electrical Systems	2	6	4
	Humanities/Fine Arts or Global Awareness			3
Total Credits				88