



NORTHEAST STATE

We're here to get you there

Division of Advanced Technologies

2425 Hwy. 75 • P.O. Box 246
Blountville, Tennessee 37617-0246
800.836.7822 (Admissions and Records)
Fax 423.323.0215
www.NortheastState.edu
2019-2020

Aviation Technology

An Associate of Applied Science Degree Program

PROGRAM DESCRIPTION

The Aviation Technology program provides students with the fundamental knowledge and skills of the aviation manufacturing, maintenance, and repair industry. Instruction in the program emphasizes skills associated with the manufacturing/repair and installation of aviation electronics, wiring harnesses, connectors, structures, mechanical systems, and aviation core knowledge in human factors, risk mitigation, advisory circulars/directives, type certificate data sheets, Federal Aviation Regulations, and maintenance documentation. Students will develop core skills in sheet metal fabrication/repair and wiring harness/connector installation. Students will earn a NC3 Snap-On Certification for the 596 Multi-meter.

APPLICATION PROCEDURE

A student desiring to enroll in the Associate of Applied Science degree program in Aviation Technology must:

1. Submit the Northeast State Application for Admission to the Office of Admissions and Records.
2. Indicate Aviation Technology as the desired major on the Northeast State application form.
3. See a faculty advisor from the Aviation Technology program prior to registering for classes.

TYPICAL PROGRAM OF STUDY

Course No.	Course Title	Credit
<u>FALL</u>		
AVIT 1300	Introduction to Aviation	3
AVIT 1410	Aviation Systems - Mechanical	4
AVIT 1420	Aviation Systems - Electrical	4
AVIT 1310	Aviation Systems - Quality and Inspection	3
EDUC 1030	College and Lifelong Learning	3
<u>SPRING</u>		
AVIT 1430	Aviation Systems - Maintenance	4
AVIT 1320	Aviation Systems - Structures	3
AVIT 1440	Aviation Systems - Electronics	4
AVIT 1450	Aviation Systems - Hydraulics	4
<u>FALL</u>		
AVIT 2310	Aviation Fundamentals I	3
AVIT 2410	Aviation Fundamentals II	4
ENGL 1010	English Composition I	3
MATH 1050	Trigonometric Applications	4
PHYS 1030	Survey of Physics	4
<u>SPRING</u>		
AVIT 2420	Aviation Fundamentals III	4
COMM 2025	Fundamentals of Communication	3
or		
COMM 2045	Public Speaking	3
Elective	Behavioral/Social Science (an approved elective from the general education core)	3
Elective	Humanities Elective (an approved elective from the general education core)	3
Total Credit Hours		63

Additional learning support courses may be required for degree completion.

TYPICAL JOB OPPORTUNITIES

The Aviation Technology program is designed to prepare individuals for employment in the aviation maintenance or aviation repair industry. The degree will provide individuals knowledge and skills associated with repair and installation of aviation electronics, aircraft structures, and aircraft mechanical systems.

Aircraft Maintenance Technician: Performs structural or electrical maintenance, repairs, or alternations on various aircraft under the direct supervision of a licensed Airframe/Powerplant mechanic or under a certified Repair Station.

Aircraft Maintenance Lead/Supervisor Position: Leads a team of aircraft technicians performing structural or electrical maintenance, repairs, or alternations on various aircraft under the direct supervision of a licensed Airframe/Powerplant mechanic or under a certified Repair Station.

FOR FURTHER INFORMATION CONTACT:

Advanced Technologies Division
Telephone: 423.279.7639
kmtipton@NortheastState.edu

PROGRAM COMPETENCIES

Graduate is competent to:

1. Identify, install, and repair aircraft structural components.
2. Calculate and measure electrical parameters using test instruments and troubleshoot common electrical problems likely to be encountered in a typical aircraft system.
3. Install, repair, maintain, and troubleshoot hydraulic and mechanical systems.
4. Upon completion of the program, all students will demonstrate critical thinking skills for inquiry and analysis, assimilation of facts and knowledge, and problem solving.

Northeast State Community College is part of the Tennessee Board of Regents system, the nation's sixth largest higher education system, governing 46 post-secondary educational institutions. The TBR system includes six universities, 13 two-year colleges and 27 technology centers, providing programs in 90 of Tennessee's 95 counties to more than 200,000 students.

Northeast State Community College does not discriminate against students, employees or applicants for admission or employment on the basis of race, color, religion, creed, ethnic national origin, sex, sexual orientation, gender identity/expression, disability, age, status as a covered veteran, genetic information or any other legally protected class with respect to all employment, programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Tim Harrison, Equity & Compliance Officer/Chief Advancement Officer, P.O. Box 246, Blountville, TN 37617-0246, 423.354.5296, complianceofficer@NortheastState.edu.

Northeast State Community College's policy on nondiscrimination can be found at <http://cwis.northeaststate.edu/oie/policymanual/pol.asp?p=254>.

Northeast State is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award the associate degree. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Northeast State.