

Automotive Technology

Automotive Specialist

An Associate of Applied Science Degree Program

PROGRAM DESCRIPTION

The Automotive Specialist concentration is designed for students who wish to complete a two-year technical degree applicable to immediate employment in the automotive industry. The program allows students flexibility in selecting courses that can meet specific educational and employment goals. The program prepares students for unique positions in the workplace which includes automotive service, motor sports and/or auto body industries. The Automotive Specialist program is used to meet customized, industry-specific needs and/or unique academic and career goals identified by the student.

Based on the selection of desired pathways, the student will gain knowledge in the following topic areas of Auto Body/Collision Repair, Automotive Service, and Motor Sports.

APPLICATION PROCEDURE

A student desiring to enroll in the Associate of Applied Science degree program in Automotive Technology – Concentration: Automotive Specialist must:

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

TYPICAL PROGRAM OF STUDY

| Course No. | Course Title | Credit |
|--|---|--------|
| FALL | | |
| EDUC 1030 | College and Lifelong Learning | 3 |
| ENGL 1010 | English Composition I | 3 |
| COMM 2025 | Fundamentals of Communication | 3 |
| or | | |
| COMM 2045 | Public Speaking | 3 |
| AUTO 1120 | Vehicle Electrification | 4 |
| AUTO 2140 | Engine Analysis | 4 |
| SPRING | | |
| Elective | Humanities Elective (an approved elective from the general education core) | 3 |
| MATH 1050 | Trigonometric Applications | 4 |
| AUTO 2150 | Computer Engine Controls | 4 |
| Select one course from the following: | | |
| AUTO 1130 | Advanced Engine Analysis | 4 |
| AUTO 2350 | Body and Chassis Electronics | 4 |
| AUTO 2410 | Management and Maintenance | 3 |
| FALL | | |
| Select 13 credit hours from the following courses: | | |
| <u>Auto Body/Collision Repair</u> | | |
| AUBR 1330 | Non-Structural Repair | 4 |
| AUBR 1340 | Structural Repair | 4 |
| AUBR 1420 | Paint and Refinishing | 4 |
| WELD 1060 | General Welding | 4 |
| <u>Automotive Service</u> | | |
| AUTO 2210 | Alignment and Brakes | 4 |
| AUTO 2310 | Power Trains | 4 |
| <u>Motor Sports</u> | | |
| AUTO 2220 | Chassis Motor Sports I | 4 |
| AUTO 2320 | Power Trains Motor Sports I | 4 |
| AUTO 2510 | Performance Motor Sports I | 4 |
| SPRING | | |
| Elective | Behavioral/Social Science Elective (an approved elective from the general education core) | 3 |
| PHYS 1030 | Survey of Physics | 4 |
| or | | |
| PSCI 1010 | Principles of Physical Science I | 4 |
| Select 9 credit hours from the following courses: | | |
| <u>Auto Body/Collision Repair</u> | | |
| AUTO 2990 | Special Topics in Automotive Technology | 1 |
| <u>Automotive Service</u> | | |
| AUTO 1130 | Advanced Engine Analysis | 4 |
| AUTO 2350 | Body and Chassis Electronics | 4 |
| AUTO 2410 | Management and Maintenance | 3 |
| <u>Motor Sports</u> | | |
| AUTO 2520 | Performance Motor Sports II | 3 |

TYPICAL JOB OPPORTUNITIES

Service Technician: Services and maintains automobiles; may be assigned to a particular specialty such as transmissions, wheel alignment, pre-delivery service, brakes, or electronic service.

Service Writer: Meets customers, makes recommendations for parts/services, and organizes vehicle flow through the service center.

Estimator: Meets customers, makes recommendations for parts/services, and organizes vehicle flow through the service center.

Shop Foreman: Supervises and assists service technicians to maintain quality and quantity of work.

PROGRAM COMPETENCIES

The graduate is competent to:

1. Demonstrate appropriate computer skills applicable in Automotive Technology fields such as analyzing computer serial data to discover specific system problems.
2. Troubleshoot, assemble, disassemble, and repair auto body components, mechanical systems, and performance systems found in the automotive service industry.
3. Demonstrate, perform, and adhere to appropriate OSHA safety standards in the automotive industry including basic and intermediate rigging methods.
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.

Total Credit Hours

60

Additional learning support courses may be required to overcome deficiencies in English, mathematics, and reading.

Five-Year Job Placement Rate

93%

Median Salary*

\$29,910*

*Source:

Bureau of Labor Statistics, Occupational Employment Statistics Survey; Tennessee Department of Labor and Workforce Development, Labor Market Information

FOR FURTHER INFORMATION CONTACT:

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Northeast State Community College is part of the Tennessee Board of Regents system, Tennessee's largest higher education system, governing 40 post-secondary educational institutions with over 200 teaching locations. The TBR system includes 13 two-year colleges, 27 colleges of applied technology, and TN eCampus, providing programs to students across the state, country, and world.

Northeast State Community College does not discriminate on the basis of race, color, religion, creed, ethnic or national origin, sex, disability, age status as a protected veteran or any other class protected by Federal or State laws and regulations and by Tennessee Board of Regents policies with respect to employment, programs, and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Linda W. Calvert, Vice President for Inclusive Excellence and Sponsored Programs, AffAct@NortheastState.edu, P.O. Box 246, Blountville, TN 37617-0246, 423.323.0222.

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

Northeast State Community College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award the associate degree. Northeast State also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Northeast State Community College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).