



**TENNESSEE COLLEGE
OF APPLIED TECHNOLOGY**
—SHELBYVILLE—

**Automotive Technology
Dual Credit Agreement**

Program Description: This program is designed to provide the student with a thorough understanding of the methods of servicing and repairing automotive vehicles. Each unit of study is approached by starting with the basic theory involved. Hands-on experience is obtained on a variety of vehicles using factory approved methods of maintenance and repair. The student will receive a high degree of individual instruction in the use of tools, special equipment, technical manuals, computerized service equipment, service specifications, diagnosis and methods of repair. Written and performance tests are given to record the individual student's progress. For more information, visit <https://tcatshelbyville.edu/programs/automotive-technology>.

Instructor(s): Bob Swartzentover - bob.swartzentover@tcatshelbyville.edu

Total Time Commitment of Program: 2160 clock hours

Aligned Secondary Program of Study: Automotive Maintenance and Light Repair

Postsecondary Course(s) for which Dual Credit will be Awarded: Brakes; Suspension and Steering

Assessment Range and Hours Awarded:

- 0-79 = 0 clock hours
- 80-85 = 50% clock hours on scale below
- 86-90 = 65% clock hours on scale below
- 90-95 = 85% clock hours on scale below
- 95-100 = 100% clock hours on scale below

Skill Assessment:

Assessment will include both hands-on and written evaluations.

- 2017 Automobile Service Technology (AST) Task List – P1
- Suspension and Steering – 216 clock hours
 - Safety and Foundation – 60 clock hours
 - SP2.org
 - **Must make 100% to receive clock hours**
 - General: Suspension and Steering Systems
 - Steering Systems Diagnosis and Repair
 - Suspension Systems Diagnosis and Repair
 - Related Suspension and Steering Service
 - Wheel Alignment Diagnosis, Adjustment, and Repair

- Wheels and Tires Diagnosis and Repair
- Brakes – 210 clock hours
 - General: Brake Systems Diagnosis
 - Hydraulic System Diagnosis and Repair
 - Drum Brake Diagnosis and Repair
 - Disc Brake Diagnosis and Repair
 - Power-Assist Units Diagnosis and Repair
 - Related Systems (Wheel Bearings, Parking Brakes, Electrical) Diagnosis
 - Electronic Brake Control Systems: Antilock Brake (ABS), Traction Control (TCS) and Electronic Stability Control (ESC) Systems Diagnosis and Repair

Aligned Industry Certifications and Hours Awarded:

- Automotive Service Excellence Student Certification: Maintenance and Light Repair Certification
– 432 clock hours with G1 certification

Total Possible Dual Credit Hours Awarded from TCAT Shelbyville Assessment: 426 clock hours

Total Possible Dual Credit Hours Awarded from Industry Certifications: 432 clock hours

Disclaimer: The maximum possible award that a student can earn is 432 clock hours.