

AUTOMOTIVE SCIENCE & TECHNOLOGY

Year 1- 3 Elective Credits

*Year 2 - 2.0 Elective Credits and 1.0 Science Credit
(1.0 Math Credit recommendation available
with additional independent study)*

ABOUT THE PROGRAM

Automotive Science and Technology is a two-year program that meets for just over two hours per day, five days per week. The rigorous curriculum is designed to prepare students for College and/or Career opportunities. Common Core and National Science standards are an integral part of the automotive curriculum; subsequently, students study scientific principles as they're applied to the design, operation and service of a modern automobile. Students will learn how engines work, troubleshoot common engine problems and fuel system issues, analyze and complete vehicle manufacture repair algorithms. Students disassemble a modern vehicle engine, use micrometers, dial indicators to measure engine components, build and test electrical circuits, complete basic vehicle maintenance procedures and operate machinery associated with lifting a car, changing / balancing wheels and performing wheel alignments.

CREDENTIALS, CERTIFICATIONS, WORK-BASED LEARNING AND LEADERSHIP OPPORTUNITIES

National Technical Honor Society, Pennzoil Information Program, Valvoline Motor Oil Basics, SP2: Mechanical Safety, Mechanical Pollution Prevention, Ethics and you in the Automotive Industry, Land That Job: Interview Skills for Automotive Students; ASE: Automotive Service E-Learning, Student Certification. Qualified students may be eligible to earn college credits at the following institutions: New Hampshire Technical College at Laconia, and University of Northwestern Ohio.

PROGRAM OUTCOMES

While a large percentage of graduates pursue further education and careers associated with the automotive industry, others have utilized the electro-mechanical knowledge and skills acquired in the program to begin successful careers in related areas.



OCCUPATIONS

- Automotive Service Technician
- Automotive Service Advisor
- Heavy Equipment Service Technician
- Industrial Machine Technician
- Heating & Ventilating Technician
- Plumber
- Electrician
- Automotive Sales Associate
- Automotive Parts manager
- Service Advisor
- Electrical/Mechanical Engineer
- Helicopter Technician
- Small Engine Technician
- Entrepreneur, small business owner



NOTES:

Equal Employment Opportunity and Non-Discrimination Statement

Applicants for admission and employment, students, parents, employees, sources of referral of applicants for admission and employment, and all unions or professional organizations holding collective bargaining or professional agreements with the Burlington School District are hereby notified that it is the intent of the Burlington Board of School Commissioners that the District will not discriminate against employees and/or applicants for employment, students or other designated beneficiaries of the statutes listed below on the basis of race, sex, gender (including but not limited to pregnancy and parental status), color, age, creed, religion, disability, handicap, ancestry, place of birth, national origin, marital status, political affiliation, sexual orientation, gender identity or gender expression in any of its employment and education practices, policies, procedures or decisions or in the operation of, access to, participation in, benefit of or admission to its programs, activities, services and facilities and that it will provide equal access to the Boy Scouts of America and other designated youth groups in compliance with and to the extent provided by the laws listed below. Pursuant to the §504 of the Rehabilitation Act of 1973, the Board will take positive steps to employ and advance in employment qualified handicapped persons in programs receiving federal assistance under the Education of the handicapped Act (Individual with Disabilities Education Act) and make reasonable accommodations to the known physical or mental limitations of the qualified handicapped applicant or employee to the extent required by law. The superintendent of his or her designee shall prepare, and the board shall approve, guidance to applicants and employees regarding requests for reasonable accommodations, including provisions for undue hardship. The District's Title VI Coordinator, the Age Discrimination Act Coordinator and Americans with Disabilities Act Coordinator for employees and others is Ze Susan Anderson-Brown, Human Resources Director, Burlington School District (802) 864-2159; 1-800-253-0191 TDD; The District's Title IX Coordinator for employees, students, parents and other such relatives, friends, guest speakers or visitors is Ze Susan Anderson-Brown, Human Resources Director, Burlington School District (802) 864-2159; 1-800-253-0191 TDD. The District's Americans with Disabilities Act Coordinator for students and §504 Coordinator is Laura Nugent, Director of Student Support Services of the Burlington School District (802) 864-8456; 1-800-253-0191 TDD Burlington Technical Center - 52 Institute Road, Burlington, VT 05408 802-864-8426-phone 802-864-8521-fax burlingtontech.org