

Program Profile

Automotive Science and Technology

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. 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 such as; electrical/mechanical engineering, heating/ventilating, plumbing, industrial refrigeration and heavy equipment to list just a few.

In addition to program level formative and summative assessments, in order to be considered a program completer the student must pass the State of Vermont's General Service Technician Exam (GST).

In the first year of the program students gain a broad understanding of the scientific principles associated with the mechanical, electrical and hydraulic systems found in the modern automobile. The curriculum includes the following:

- Basic auto service maintenance
- Fuel system analysis
- Electronic ignition operation
- Cooling system repair
- Brake service
- Automotive electricity
- Principles of internal combustion
- Basic vehicle service procedures

The curriculum in the second year builds upon knowledge accrued in Automotive Science and Technology I including:

- Engine troubleshooting
- Analysis of electrical systems
- Inspection procedures
- Automotive business management

Program policies are geared to prepare students for College and Career level expectations:

- Long range assignments
- Technical writing assignments
- Comprehensive written tests
- Public speaking
- Lab practicals
- Collaborative group activities

Following graduation 80% of the students continue on to post-secondary education, 15% go into the workforce with opportunities for advanced training and 5% enter the military. Students have been accepted to the following schools:

American International College	Stone Hill College
East Carolina University	Universal Technical Institute
Franklin Pierce College	University of Charleston
Lyndon State College	University of Northwestern Ohio
Mount Hood Community College	University of Vermont
New England Institute of Technology	Vermont Law School
New Hampshire Technical College	Vermont Technical College
Northwestern Ohio Technical College	Wyoming Technical College
Ohio Technical College	

Qualified students can earn guaranteed admission status and up to six college credits in the General Motors-Automotive Associates Degree Program at New Hampshire Technical College at Laconia, six college credits at University of Northwestern Ohio, and advanced standing and four credits at New England Institute of Technology.

If you have any questions about the program please call Bob Church at 802-864-8420 or e-mail rchurch@bsdvt.org.