



Collision Repair and Refinishing Program of Study

Proficiencies Needed to be Successful in Collision Repair and Refinishing:

Math:

Modeling

- Use numerical phenomena or quantities to model a situation.

Functions

- Understand ratio concepts and use ratio reasoning to solve problems.
- Analyze proportional relationships and use them to solve real-world and mathematical problems.

Geometry

- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Draw, construct, and describe geometrical figures and describe the relationships between them.

Science:

Physical Sciences:

- Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.
- Plan and conduct investigations, make observations and measurements to identify materials based on their (observable) properties.
- Conduct an investigation to determine whether the mixing of two or more substances results in new substances.
- Construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.
- Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.
- Gather and make sense of information to describe that synthetic materials come from natural resources and impact society.

English Language Arts:

Reading

- Determine the central ideas of the text and provide an objective summary.
- Determine the meaning of words and phrases as they are used in the text, including figurative, connotative, and technical meanings.
- Evaluate content and multiple sources of information presented in diverse media formats to address a question or solve a problem.

Writing

- Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas efficiently as well as to interact and collaborate with others.
- Draw evidence from literary or informational texts to support analysis, reflection, and research.

Speaking and Listening

- Engage effectively in a range of collaborative discussions with diverse partners on grade level topics and texts, following agreed upon rules and roles, building on others' ideas and expressing their own clearly.

Language

- Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

Education and Career Pathways out of Collision Repair and Refinishing:

Post-Secondary Education:

Recent graduates have been accepted at many colleges, including:

- Vermont Technical College
- Community College of Vermont
- Community College of New Hampshire
- University of Northwestern Ohio (UNOH)
- Lincoln Technical Institute
- Universal Technical Institute (UTI)
- SUNY Alfred (Auto Body Tech)

Certifications:

- S/P2
- CPR/AED and First Aid Training
- Automotive Service Excellence (ASE) certification
- SEM Plastic Repair
- WorkKeys National Career Readiness Certification (NCRC)

Apprenticeships or Cooperative Education:

- Cooperative Education or Job Shadow opportunities are available at local auto body repair shops.

Employability:

- Entry Level Auto Body Technician
- Service Advisor
- Parts Counter Person
- Car Salesperson
- Graphic Design
- Motorsports
- Fabricator
- Estimator