



Walker Career Center

Principles of Collision Repair

DOE# 7215



Course Description and Outline	Teacher Information and Student Supports
<p>Principles of Collision Repair provides students an overview of the operating, electrical, and general maintenance systems of the modern automobile. Students will be introduced to the safety and operation of equipment and tools used in the automotive collision industry. Students will study the basics of collision repair, along with learning to perform basic service and maintenance, including the car's starting and charging system.</p>	<p>Name: Jeremy Ross Email: jross5@warren.k12.in.us Phone: 317-532-6150 ext. 6168</p> <p>Course Supplies</p> <ul style="list-style-type: none">● Online Textbook● Work Shoes● Work Clothes <p>Additional Supports</p> <ul style="list-style-type: none">● Reteach and Enrichment activities in class every week● Individual help by appointment when necessary
<i>Journey of a Graduate Skills</i>	
<p>Critical Thinking</p> <ul style="list-style-type: none">● Demonstrate safe shop practices while working with electrical systems.● Calculate resistance, current, and voltage problems using Ohms Laws.● Diagnose starting and charging system faults. <p>Communication</p> <ul style="list-style-type: none">● Identify and explain how the automotive collision industry is structured.● Identify and explain operation of the 8 major systems of the automobile.● Identify and explain what EPA, CAFÉ and NHTSA regulations are and how they affect the automotive industry.● Describe the basic laws of electricity and circuit construction. <p>Resilience</p> <ul style="list-style-type: none">● Attain readiness to be certified to use an industry standard scanner, like Shop Key Pro exam.● Attain readiness to take industry standard safety and pollution prevention certification exams.● Attain readiness to take required environmental regulatory exams.● Attain readiness to take ICAR Pro Level I Non-Structural and Refinish Certification exam● Attain readiness to take Snap On 504 Multi-meter exam <p>Collaboration</p> <ul style="list-style-type: none">● Perform voltage, current, and resistance measurements using the proper measurement devices.● Perform voltage drop testing on multiplex and non-multiplex circuits.● Perform basic battery testing and diagnosis.● Identify and perform basic service and maintenance procedures. <p>Content Knowledge</p> <ul style="list-style-type: none">● Identify tools & fasteners used in automotive repair.● Identify Electrical symbols and components.● Identify starting and charging system components and circuits.	

Citizenship

- Identify proper shop safety practices while in the labs.
- Evaluate employment and career pathway opportunities related to established career interest(s) in the field of transportation
- Evaluate resources that keep workers current in the career field
- Describe the emerging transportation-related jobs and industry needs
- Demonstrate skills and attitudes needed for lifelong learning
- Identify state and national safety regulations for working in a transportation facility
- Practice the proper storage of tools
- Practice appropriate shop/lab upkeep and maintenance duties
- Practice safety procedures for handling and disposal of hazardous materials
- Practice safety procedures in cases of emergency

Grade Calculation

MSD Warren Township Scale

Grade	Percentage
A	92.5 - 100
A-	89.5 - 92.4
B+	86.5 - 89.4
B	82.5 - 86.4
B-	79.5 - 82.4
C+	76.5 - 79.4
C	72.5 - 76.4
C-	69.5 - 72.4
D+	66.5 - 69.4
D	62.5 - 66.4
D-	59.5 - 62.4
F	Below 59.5

Grading Policies

Semester Grade

Your semester grade will be calculated in the following way:

50% Employability skills
40% Assignments
10% Test

Warren Central Grading Policy

The high school grading policies will be explained here

Warren Central Homework Policy

The high school homework policies will be explained here.

Synergy Grades

Grades posted in Synergy reflect the students' academic performance in the course.

Credits/Pathways

CORE 40 Diploma

Course fulfills two credits of the elective requirement for the Core 40 diploma.

Academic/Technical Honors Diploma

Has potential to fulfill academic/technical honors diploma. - see counselor

CTE Graduation Pathway

Recommended – Intro to Transportation

Principles – Principles of Collision Repair

Course A –Automotive Body Repair

Course B – Plastic Body Repair and Painting

Fundamentals

Capstone –Collision Repair Capstone

Types of Assignments and Assessments

Assignments

Assignments will include classwork, homework, labs, and bell work. These items are opportunities for students to practice the concepts learned in class.

Labs

Each unit will have one or more laboratory experiments. Labs are designed to demonstrate “real world” applications of the class concepts and help students develop a deeper understanding of the learning objectives.

Assessments

Tests/projects cover Indiana State Standards.

Quizzes may be given throughout a unit. There may or may not be a quiz for each unit.