



AUTOMOTIVE COLLISION REPAIR TECHNICIAN 1

Course Syllabus 2024-2025

Instructor: James Holland
Teacher Assistant: Dawn Wegehaupt
CIP 47.0603 – PSN 11632
GoogleMeet-
Google Classroom Code-

Contact Information

Location: Lab Room 116, Office- 734-419-2140,
Personal for text and call- 734-686-0946
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Course Number:

V0220-1 1 Year, 3 Credits
V0220-M 1 Year, 2 Credits plus 1 math credit
Can also receive 4th-year math or VPAA Credit

AM Shift Class: Monday-Friday 7:25 am to 10:05 am

PM Shift Class: Monday- Friday 11:10 am to 1:50 pm

Instructional Support/Intervention: Monday, Tuesday, Thursday, Friday: 7:25 to 8:05
and Wednesday: 11:00 to 1:50

This course is a continuation of Automotive Collision Repair Technician I, and is designed to provide students with opportunities to work on projects facilitated by the instructor and some special projects of their own. Students also have the opportunity to work on customers' cars and do some minor and major repairs.

NATEF Standards:

- Students will do a review of equipment and shop safety. A1-6, C1-5

- Students will help in a demo of hand and power tools to first-year students with the instructor assistants.
- Students will have an understanding of metal finishing, heat shrinking, Mig welding patch and plastic filler of poly putty. D1-15
- Students will have an understanding of surface prep, spray guns (siphon, gravity feed, HVLP, LVLP), and maintenance of spray guns. C1-5
- Students will have an understanding of (primers) undercoats (base, surface, sealer), topcoats (basecoat/clearcoat), and Urethane and add stripes, B1-22, graphics, or flames with wet sanding and polish of finish project. F1.
- Students will have an understanding of typical paint problems. E1-29
- Students will have an understanding of customer service panel removals and installation, and porter skills. F2-5

Course Objectives – Segments 1-8, 1st semester, Segments 9-12, 2nd semester

1. Collision Industry Orientation
2. Career & Employability Skills
3. Person & Shop Safety
4. Substrate Identification and Preparation
5. Spray Equipment
6. Undercoats & Corrosion Protection
7. Mixing & Apply Topcoats
8. Final Detailing
9. Advanced Color Mixing and Refinishing
10. Paint Problems/ Defects
11. Damage Analysis/Estimating
12. Refinishing Certifications

The advanced Automotive Collision Repair Technician 2 class consists of an academic component – lecture, book assignments, demo, hands-on practice, test and quizzes.

Course Recommendations: Students should possess a 9th grade, or higher, reading level and a 9th grade, or higher, math level.

Book: Auto Body Repair Technology by James E. Duffy **Publisher:** Cengage Learning
 Print ISBN: 978-0-357-13979-0
 Edition: 7th

Book: Auto Body Repair Technology by James E. Duffy **Publisher:** Cengage Learning
 Print ISBN: 13: 978-1133702856
 Edition: 6th

September – June

1. Students' paperwork – information paper, Safety Pledge, etc.
2. Orientation of lab & shop, career paths, and the beginning of the year-long discussion on safety and following safety, testing on safety, and following safety rules.
3. Tool identification, usage, and safety (hand and power tools).
4. Discussion about substrates and the beginning of the hands-on experience.
5. Metal finishing, heat shrinking (oxy-acetylene welder), and MIG welding.
6. Plastic filler application, grinding, and sanding.
7. Discussion about spray equipment (transfer rate, types, styles, and guns that meet 6H rules of compliance).
8. Coating training starts with undercoats, corrosion protection & ending with topcoats.
9. Employability skills through Career Ready 101/Career Cruising and resume Writing.

Certificates That May Be Awarded:

Certificate of Completion with Outstanding Achievement – awarded to those students that complete a full year of the program with at least 80% of applicable competencies at level 3 or higher on a 4-point scale.

Certificate of Completion – awarded to those students that complete a full year of the program with at least 70% of applicable competencies at level 2 or higher on a 4-point scale.

Students in this course are eligible to sit for the ASE exam(s), which provides industry credential(s) that will support students in gaining employment in the future. William D. Ford Career Technical Center's students with a grade of C or higher are eligible. This opportunity is offered at no cost to families.

End of Program Assessment Exam:

There will be end-of-the-year program assessments that are required by the The State of Michigan, which is the ASE/NATEF exit exam. These exams can also allow one to earn a certificate/credential in the automotive industry. For additional information about grading, evaluation, attendance policies, and classroom rules, see the Automotive Collision Repair Student Handbook.

Extra Help:

Instructors will be available for extra help. Feel free to schedule a time that's convenient for you. Test/quizzes may be read aloud and extended time may be permitted under certain circumstances. Seating arrangements may be adjusted based on student needs.

Work-Based Learning (Course Requirement):

Work-Based Learning is a valuable experience in which every student in Career and Technical Education is required to participate. All students will be given opportunities to attend a minimum of one field experience(s) and will be required to find a site where they spend a minimum of one class period in business related to their program of study. The student will be required to get the teacher's signed permission, and the parent/guardian's signed permission, fill out a training agreement to be signed by the supervisor and provide their own transportation to and from the site. Upon completion of the field experience, the student will turn in a question and answer the assignment provided by the teacher regarding the Experience.

Performance:

Each class day is worth one half of the student's weekly grade. This is recorded by the student's attendance, participation and completion of assignments. Performance and employability measures all skills. The student must be a team player, use proper language, be on time, work steadily and efficiently, respect others and their property, etc. They may be welcomed back for a second year by the instructor if performance is within standards.

Khan Academy Math Curriculum:

Khan Academy is an interactive learning tool used to target the academic area of math within the class. For this school year, the school has set targets in mathematics for each student. Students access Khan Academy to take self-scoring pretests to determine their starting levels. All students participate in additional training, practice, and remediation in order to improve their academic and career skills.

CTSOs/Leadership Opportunities:

Classroom Leadership and Competitions: There will be opportunities within the classroom that include a variety of competitions (classroom to regional) designed to enhance leadership (group and independent activities) within the Collision Repair realm.

Additional Activities & Optional Opportunities

- National Career-Technical Honor Society (min. course GPA & overall GPA)
- In class competitions - Spring
- Opportunities for ASE certification
- Opportunities to meet with professionals (in the industry) for evaluation and interaction regarding class projects.

Post Secondary Articulated Credit

Students may be eligible to receive free college credit for the successful completion of this course. The qualifications and number of college credit hours available vary by program and the college with which it is affiliated. This course has articulated credit agreements with the following colleges/ universities:

- Baker College
- Ohio Technical College

- Washtenaw Community College
- Wayne County Community College
- Davenport University

By signing below, I verify that I understand all of the procedures and policies in the Student Handbook. I will follow them as stated and give my best effort to adhere to all policies that contribute to the safety and order of the WDFCTC Auto Body Collision Repair Lab.

Student Sign Off:

Student Printed Name Student Signature Date

By signing below, my parent or guardian agrees to support the instructors in maintaining safety and order in the WDFCTC Auto Body Collision Repair Lab.

Parent/Guardian Sign Off:

 Parent/Guardian Printed Name Parent/Guardian Signature Date

Important Note: Students may lose equipment access if they do not return this form & abide by these policies.

Instructor Pledge:

By signing below, the instructor agrees to provide an environment conducive to learning course skills, to make available experiences that facilitate learning and promote awareness of job opportunities.

Instructor, James Holland Date / /

It is the policy of the Wayne-Westland Community Schools Board of Education to prohibit any acts of unlawful discrimination in all matters dealing with students, employees, or applicants for employment. The Wayne-Westland Schools reaffirms its policy of equal educational and employment opportunities for all persons without regard to race, color, gender, religion, age, height, weight, marital status, or disability which is unrelated to an individual's qualifications for employment or promotion, or which is unrelated to an individual's ability to utilize and benefit from the School District's services, activities, benefits, privileges or programs. Inquiries concerning the application of Title VI, Title IX, Section 504, and Title II legislation should be directed to the Executive Director of Student and Legal Affairs, Wayne-Westland Community Schools, 36745 Marquette, Westland, MI 48185 (734-419-2083).