

Collision Auto Repair

Certificates

- Collision Auto Repair - Non-Structural Repair Technology Option (CAR.NRT.CT) (<http://catalog.oaklandcc.edu/programs/collision-auto-repair/collision-auto-repair-nonstructural-technology-option-certificate>)
- Collision Auto Repair - Paint and Refinish Technology Option (CAR.PRT.CT) (<http://catalog.oaklandcc.edu/programs/collision-auto-repair/collision-auto-repair-paint-refinish-technology-option-certificate>)

Certificate of Achievement

- Collision Auto Repair - Detailer/Painter Assistant (CAR.PRT.CA) (<http://catalog.oaklandcc.edu/programs/collision-auto-repair/collision-auto-repair-detailer-painter-assistant-certificate-achievement>)

Collision Auto Repair Courses

CAR 1100 Automotive Detailing and Prep4 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

This course provides the basic knowledge of automotive cleaning and preparation. The student will perform personal and environmental safety practices associated with buffing and polishing, removal of overspray, cleaning interior and exterior surfaces, and preparing a vehicle for delivery. Customer satisfaction will be emphasized during the performance of coursework and actual vehicle preparation activities. BILLABLE CONTACT HOURS: 5

CAR 1200 Auto Body Fundamentals 4 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

The student will perform correct procedures for: removal and replacement of non-structural body panels, repairing light sheet metal damage, removal and replacement of interior and exterior trim and bumpers. Alignment of outer body panels and replacing associated hardware will also be performed. BILLABLE CONTACT HOURS: 5

CAR 1300 Collision Welding 4 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

The student will perform specific GMAW (MIG) weld repairs on galvanized mild and high strength steel following the repair guidelines established by 1-CAR and the collision repair industry. The student will identify and perform cutting processes for different materials and locations in accordance to manufacturer's specifications. BILLABLE CONTACT HOURS: 5

CAR 1350 Collision Panel Replacement I4 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

Prerequisite: CAR 1200

Pre- or Corequisite: CAR 1300

The student will perform replacement of damaged outer body panel on unibody type vehicles. Specific manufacturers recommended repair processes will be used to duplicate the original welded panel construction. The correct procedures required for structural adhesive panel bonding will also be covered in this course. BILLABLE CONTACT HOURS: 5

CAR 1400 Collision Panel Replacement II4 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

Prerequisite: CAR 1350

The student will devise and follow a damage repair plan prior to repairing a collision-damaged vehicle. The damage repair plan will include: straightening and alignment of damaged body components, repair or replacement of outer body panels, restoration of corrosion protection, and returning the vehicle to the pre-accident condition. BILLABLE CONTACT HOURS: 5

CAR 1450 Non-Structural Analysis and Damage Repair: Co-Operative Internship2 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

Prerequisite: CAR 1400 and consent of instructor.

The student will spend 50 supervised hours at a co-op approved collision repair facility working with a certified structural repair technician. The student will perform such duties as: remove damaged panels, replace and align new panels, restore corrosion protection, and other collision repair tasks. The student will report to the instructor on a weekly basis and will be evaluated by the instructor at the co-op collision site. BILLABLE CONTACT HOURS: 2

CAR 1600 Paint and Refinish I4 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

CAR 1600 provides the foundation skills for the application of automotive paint finishes. The student will mix and apply modern primers, primer/surfaces, sealers, and topcoats. Among the topics covered will be surface preparation for painting, environmental laws, personal safety protection, and modern paint spraying equipment. BILLABLE CONTACT HOURS: 5

CAR 1700 Paint and Refinish II4 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

Prerequisite: CAR 1600

The student will sand, mask, and tape vehicle panels in preparation for vehicle refinishing. The student will use mixing formulas to mix the paint color to the factory standard. The student will perform panel repair and overall refinishing procedures. BILLABLE CONTACT HOURS: 5

CAR 1800 Paint and Refinish III 4 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

Prerequisite: CAR 1700

The students will perform paint application and repair processes using base coat/clear coat paint systems exclusively. Emphasis will be placed on panel repairs, blending techniques, and color matching while performing actual repairs during class time using time study procedures. BILLABLE CONTACT HOURS: 5

CAR 1900 Advanced Paint Seminar2 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

Prerequisite: CAR 1800

The students will perform advanced paint application and repair processes. The student will: tint and finish match, solve paint application problems, and spray tri-coat and multi coat glamour colors. BILLABLE CONTACT HOURS: 3

CAR 2100 Structural Damage Analysis 4 Credit Hours

English/ESL Placement: Placement into ENG 1055 or higher (or placement into ESL 1011 or higher for students taking the ESL sequence of courses.)

Prerequisite: CAR 1400

Students will use safe procedures in the set up, measurement, analysis and repair of body over frame and unibody vehicular damage utilizing a 3-dimensional laser measuring system and hydraulic frame pulling equipment. Students will develop a repair plan, and document dimensional accuracy upon completion of the repair. BILLABLE CONTACT HOURS: 5