

Auto Collision Repair (ACRR)

Courses

ACRR 1101 Introduction to Collision Repair Safety: 2 semester hours.

The orientation and application of tool safety, shop practices, and shop equipment theories. Industry needs and standards will be addressed. Students will gain knowledge of proper use of equipment, tools, and safety that meet or exceed industry standards. PREREQ: Minimum score of 8 on ALEKS or equivalent. F, S

ACRR 1102 Introduction to Welding for Collision Repair: 1 semester hour.

Orientation to mild steel, automotive sheet metals, basic oxy-acetylene, MIG welding, plasma air arc cutting, equipment, tools, and safety. PREREQ: Minimum score of 8 on ALEKS or equivalent. F, S

ACRR 1103 Introduction to Welding for Collision Repair Lab: 2 semester hours.

Prepare students to perform basic welding processes and techniques including the application of mild steel, wire feed welding, automotive sheet metals, basic oxy-acetylene, MIG welding, and plasma air arc cutting. Students will gain knowledge and proper use of equipment, tools, and safety that meet or exceed industry standards. PREREQ: Minimum score of 8 on ALEKS or equivalent. F, S

ACRR 1104 Fundamentals of Auto Collision Repair and Refinishing: 3 semester hours.

Fundamentals of basic metal finishing including the use of plastic filler. Safety rules and procedures will be emphasized. "Right to Know" laws, OSHA guidelines, DEQ rules, and safe handling of hazardous materials are stressed. PREREQ: Minimum score of 8 on ALEKS or equivalent. F, S

ACRR 1105 Detailing and Polishing: 2 semester hours.

This course covers the practical application of detailing and polishing fundamentals including that of pre-wash, paint defect identification, exterior polishing, interior renovation, environmental hazards, proper use of detailing equipment, and PPE. Gain knowledge of general safety and health practices, including the use of chemicals and detailing products. PREREQ: Minimum score of 8 on ALEKS or equivalent. F, S

ACRR 1106 Minor Collision Repair Theory: 1 semester hour.

Basic theory in metal finishing and minor body repair. This includes straightening and prepping sheet metals, the proper use of plastic body fillers, abrasives, sanding techniques, and air tools. Remove and install necessary trim and hardware to facilitate repair procedures. PREREQ: Minimum score of 8 on ALEKS or equivalent. F, S

ACRR 1107 Minor Collision Repair Lab: 2 semester hours.

Practical application of metal finishing and minor body repair. This includes straightening and prepping sheet metals, the proper use of plastic body fillers, abrasives, sanding techniques, and air tools. Remove and install necessary trim and hardware to facilitate repair procedures. PREREQ: Minimum score of 8 on ALEKS or equivalent. F, S

ACRR 1108 Fundamentals of Auto Collision Repair and Refinishing Lab: 3 semester hours.

Focus will be given to completing practical exercises in refinishing single or multiple vehicle components and customer vehicles in a lab setting. PREREQ: Minimum score of 8 on ALEKS or equivalent. F, S

ACRR 1160 Advanced Refinishing I: 7 semester hours.

Advanced technical refinishing terms will be introduced and explained along with Environmental Protection Agency laws. High Volume Low Pressure application will be used. Emphasis on detailing a vehicle. System application will be emphasized. F, S

ACRR 1161 Advanced Refinishing II: 7 semester hours.

Live-work projects using single and two stage painting processes and tri-coating with a high volume, low pressure application system. PREREQ: ACRR 1160. F, S

ACRR 1162 Advanced Refinishing III: 7 semester hours.

Tri-coating, striping, and variation of painting applications. Troubleshooting and corrective actions for problems encountered when painting. PREREQ: ACRR 1161. F, S

ACRR 2210 Advanced Collision Repair I: 7 semester hours.

Estimating, glass removal and replacement, frame repair and frame rack setup, body panel and part replacement and alignment, welding techniques, and corrosion protection. PREREQ: ACRR 1101, ACRR 1102, ACRR 1103, ACRR 1104, ACRR 1105, ACRR 1106, ACRR 1107, ACRR 1108. F, S

ACRR 2211 Advanced Collision Repair II: 7 semester hours.

Frame and unibody repair and alignment. Steering and alignment systems diagnosis and repair. Sectioning, sheet molded compounds, fiberglass, and plastic repair. PREREQ: ACRR 2210. F, S

ACRR 2212 Advanced Collision Repair III: 7 semester hours.

Automotive electrical circuitry, window and water leak diagnosis, air bags, and seatbelts. PREREQ: ACRR 2210. F, S

ACRR 2252 Internship: 7 semester hours.

An opportunity for the student to receive on-the-job work experience with an automotive body business in either collision repair or refinishing. PREREQ: Permission of the instructor. F, S

ACRR 2296 Independent Study: 1-8 semester hours.

Addresses specific learning needs of individuals for the enhancement of knowledge and skills within the program area under the guidance of an instructor. May be repeated. Graded S/U, or may be letter-graded. PREREQ: Permission of the instructor. D

ACRR 2298 Special Topics: 1-8 semester hours.

Addresses the specific needs of industry, enabling students to upgrade technical skills that are not included in the current program curriculum. May be repeated. Graded S/U, or may be letter-graded. PREREQ: Permission of the instructor. D