AUTOMOBILE COLLISION REPAIR TECHNOLOGY CERTIFICATE OF APPLIED SCIENCE

The ever-increasing numbers of vehicles on the highways, coupled with the high cost of original purchase and replacement, have created a demand for trained collision repair technicians. This demand is currently exceeding the supply, and future indications are that this trend will continue. A student may exit this program after completing two semesters and receive an Automobile Collision Repair Technician or Automobile Refinishing Technician Certificate of Applied Science. Graduates in our Automobile Repair and Refinishing program may find career opportunities with auto repair shops, auto parts stores, windshield repair shops and other automotive related businesses. See our website at www.msubillings.edu/careers (http://www.msubillings.edu/careers/) for graduate data.

Automobile Collision Repair Technicians perform structural and cosmetic repairs on automobiles with unitized body construction in preparation for refinishing. Responsibilities include minor sheet metal repair, welding of mild and high-strength steels, panel replacement, and measuring with laser and mechanical measuring systems.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Perform demonstrations with basic tools in body damage repair situations, according to lectures and demonstrations shown.
- Perform welding operations using resistance and metal inert gas equipment.
- Disassemble multiple vehicle panels including hood, fenders, doors and bumpers, reassemble and align according to manufacturers' recommendations.
- Identify and diagnose door hardware malfunctions, including latches, lock assemblies and window regulators.
- Apply gasket and adhesive methods to remove and replace stationary automobile glass

Required Courses

Code	Title	Credits
ABDY 101	Introduction to Estimating	2
ABDY 110	Intro to Collision Repair	4
ABDY 120	Non-Structral Collision Repair	6
ABDY 201	Advanced Estimating	1
ABDY 220	Structural Collision Repair	6
COMX 106	Comm in a Dynamic Workplace	3
M 111	Technical Mathematics	3
TRID 140	Auto Sheet Mtl Strct MIG Wldng	2
TRID 152	Vehicle Htg, Vent & AC	3
WRIT 104	Workplace Communications	3
Total Minimum Credits		**33**

Students should check the course descriptions for required prerequisites.

Suggested Plan of Study

Code	Title	Credits
Fall Semester-Even Years		
ABDY 101	Introduction to Estimating	2
ABDY 110	Intro to Collision Repair	4
ABDY 120	Non-Structral Collision Repair	6
TRID 140	Auto Sheet Mtl Strct MIG Wldng	2
M 111	Technical Mathematics	3
Total		17
Spring Semester-Odd Years		
ABDY 201	Advanced Estimating	1
ABDY 220	Structural Collision Repair	6
COMX 106	Comm in a Dynamic Workplace	3
TRID 152	Vehicle Htg, Vent & AC	3
WRIT 104	Workplace Communications	3
Total		16