NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
AUB 125 - AUTO BODY WELDING (4 CR.)

Course Description

Presents the principles involved in using heat to relieve stress in shrinking metal, as well as, the processes used in joining high and low strength steels. Includes oxyacetylene welding, cutting, brazing, and soldering, resistance spot welding, and MIG welding. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

General Course Purpose

Prepares students to become familiar with welding high strength and low strength steels together. Students will be prepared to conform to factory specs, and manufacturers latest method in welding.

Course Prerequisites/Co-Requisites

Ability to read, write, and speak the English language. AUT 100 is necessary and recommended before other collision repair classes are attempted.

Course Objectives

Upon completion of this course, the student will be able to:

- know safety procedures in each welding operation
- identify oxyacetylene welding equipment and techniques
- identify different classes of welding
- explain brazing, soldering and arc welding techniques
- know where and how to use resistance spot welding
- demonstrate how to use a Mig welding machine
- know when and how to use the appropriate metal cutting equipment
- remove and replace welded panels to manufacture specifications

Major Topics to be Included

a. shop and personal safety procedures
b. proper way to remove and replace factory welded panels
c. how to use spot weld removal tools
d. use of oxyacetylene equipment
e. set up, adjustment and correct use of MIG welder
f. basic welding joints
g. resistance spot welding
h. cutting equipment: plasma, oxyacetylene and sheet metal
i. welding and welder maintenance
j. vehicle protection during cutting and welding