

AUTOMOTIVE RESTORATION

*Effective Term – Summer 1997 [1997*02]*

ARS 101	Intro to Automotive Rest	2	0	2
Prerequisites:	None			
Corequisites:	None			

This course introduces the automotive restoration industry. Emphasis is placed on the research of the evolution of the automobile from steam to the internal combustion engine in the United States and Europe. Upon completion, students should be able to describe the process of automotive restoration and note the worldwide impact of the automobile. *This is a diploma-level course.*

*Effective Term – Summer 1997 [1997*02]*

ARS 102	Auto Restoration Research	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course covers identification and collection of information needed to restore classic automobiles. Emphasis is placed on using books, numbers, emblems, titles, bills of sale, and other documents as resources. Upon completion, students should be able to use reference materials in the area of auto restoration to restore classic vehicles. *This is a diploma-level course.*

*Effective Term – Summer 1997 [1997*02]*

ARS 103	Automobile Upholstery	2	4	4
Prerequisites:	None			
Corequisites:	None			

This course covers automobile upholstery work used in restoration of classic automobiles. Emphasis is placed on removing, repairing, or reconstructing worn/damaged upholstery material in classic automobiles. Upon completion, students should be able to disassemble, repair/reconstruct, or replace the seats, headliners, door panels, and other components in the interior of vehicles. *This is a diploma-level course.*

*Effective Term – Fall 2008 [2008*03] – CRC 09/12/07*

ARS 104	Restoration Skills I	2	4	4
Prerequisites:	None			
Corequisites:	ARS 103, ARS 107, ARS 131 and (AUT 161 or ARS 161)			

This course covers mechanical, electrical, and upholstery restoration. Emphasis is placed on engines, transmissions, brakes, starters, generators, distributors, and replacement or fabrication of upholstery. Upon completion, students should be able to restore, rebuild, or replace specific components in a wide range of classic vehicles. *This is a diploma-level course.*

*Effective Term – Summer 1997 [1997*02]*

ARS 104	Restoration Skills I	2	4	4
Prerequisites:	None			
Corequisites:	AUT 131, AUT 161, ARS 103 and ARS 107			

This course covers mechanical, electrical, and upholstery restoration. Emphasis is placed on engines, transmissions, brakes, starters, generators, distributors, and replacement or fabrication of upholstery. Upon completion, students should be able to restore, rebuild, or replace specific components in a wide range of classic vehicles. *This is a diploma-level course.*

*Effective Term – Summer 1997 [1997*02]*

ARS 105	Restoration Skills II	2	4	4
Prerequisites:	None			
Corequisites:	None			

This course covers advanced mechanical, electrical, and upholstery restoration. Emphasis is placed on advanced techniques applied to engines, transmissions, brakes, starters, generators, distributors, and replacement or fabrication of upholstery. Upon completion, students should be able to apply advanced techniques to restore, rebuild, or replace specific components of a wide range of classic vehicles. *This is a diploma-level course.*

*Effective Term – Summer 1997 [1997*02]*

ARS 106	Restoration Skills III	2	4	4
Prerequisites:	ARS 104, AUB 131, and AUB 141			
Corequisites:	None			

This course covers advanced restoration skills for a wide range of classic vehicles. Emphasis is placed on advanced techniques applied to engines, transmissions, brakes, starters, generators, and distributors, and replacement or fabrication of upholstery including attaching and removing trim. Upon completion, students should be able to apply advanced techniques to restore, rebuild, or replace specific components of a wide range of classic vehicles. *This is a diploma-level course.*

*Effective Term – Summer 1997 [1997*02]*

ARS 107	Automotive Engines	1	3	2
Prerequisites:	None			
Corequisites:	None			

This course covers the repair, rebuilding, and troubleshooting of internal combustion engines. Emphasis is placed on use of tools and equipment to measure reconditioning tolerances of the internal combustion engine. Upon completion, students should be able to disassemble, repair and/or replace, and reassemble an internal combustion engine. *This is a diploma-level course.*

*Effective Term – Summer 1997 [1997*02]*

ARS 108	Wood & Metal Restoration	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course introduces various wood materials used in early automobile construction including a general overview of woodworking techniques. Emphasis is placed on wood material, metal behavior, and trim construction. Upon completion, students should be able to perform simple woodworking techniques, attach and remove trim, and be familiar with basic hardware techniques. *This is a diploma-level course.*

*Effective Term – Spring 2007 [2007*01] – CRC 09/20/06*

ARS 131	Chassis and Drive Trains	2	3	3
Prerequisites:	None			
Corequisites:	None			

This course introduces principles of operation of automotive drive trains, perimeter/ladder/full-framed vehicles, and related restoration processes. Emphasis is placed on the technology related to restoration of manual and automatic transmissions, transaxles, and final drive components used on vehicles. Upon completion, students should be able to describe, diagnose, and determine needed service and repairs in the vehicle restoration industry.

*Effective Term – Spring 2007 [2007*01] – CRC 09/20/06*

ARS 134 Auto Restoration Welding

1 4 3

Prerequisites: None

Corequisites: None

This course introduces welding and cutting techniques used in automotive restoration with emphasis on personal and environmental safety. Topics include safe operation of MIG welding equipment, metal identification, metal cutting using plasma and oxy-fuel techniques, and other related topics. Upon completion, students should be able to demonstrate a basic knowledge of welding and cutting operations and safety procedures according to industry standards.

*Effective Term – Spring 2007 [2007*01] – CRC 09/20/06*

ARS 161 Electrical Systems Fund

2 6 4

Prerequisites: None

Corequisites: None

This course covers six/twelve volt electrical theory, wiring diagrams, test equipment, diagnosis/repair/replacement of batteries, starters, accessories, and AC/DC generators. Topics include diagnosis, repair, and/or modification of conventional battery, starting, charging, lighting, and basic accessory systems problems. Upon completion, students should be able to diagnose, test, and repair the basic electrical components on vehicles in the restoration industry.

See the SEL and SEM prefixes for generic Selected Topics and Seminar course descriptions.