

will be given on brake machining equipment, hydraulic systems and component replacement on traditional and anti-lock brake systems. Prerequisites: ASEP-170 or ASEP 175. Corequisites: ASEP-190. Offered: Spring.

ASEP-185 GM ABS & Traction Cont System 1 cr.

This course will cover Anti-Lock Brake System, Anti-Slip Systems and Traction control systems and include theory, diagnosis and repair procedures as outlined in factory service information. Electric power steering motors, sensors and circuitry will be included. Safety will be emphasized. Corequisites: ASEP-180. Offered: Spring.

ASEP-190 GM Steering & Suspension 4 cr.

A theory and shop course to introduce the student to steering geometry, front and rear suspension service, wheel alignment, and wheel balancing. Lab work will include instruction on the latest GM vehicles' steering and suspension systems. Corequisites: ASEP-180. Offered: Spring.

ASEP-195 GM Computer Controlled Suspensions 1 cr.

This course will cover the theory of operation of the electrical, mechanical, and hydraulic systems of the computer controlled suspension systems on GM vehicles. Proper service procedures and techniques will be presented. Safety will be emphasized. Corequisites: ASEP-190. Offered: Spring.

ASEP-280 GM Cooperative Work Education 4 cr.

The student will be employed at an approved General Motors automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly reports MUST be submitted electronically once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisites: ASEP-120. Offered: On Demand.

ASEP-281 GM Cooperative Work Education 4 cr.

The student will be employed at an approved General Motors automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly reports MUST be submitted electronically once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisites: ASEP-140. Offered: On Demand.

ASEP-282 GM Cooperative Work Education 4 cr.

The student will be employed at an approved General Motors automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly reports MUST be submitted electronically once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisites: ASEP-160. Offered: On Demand.

ASEP-283 GM Cooperative Work Education 4 cr.

The student will be employed at an approved General Motors automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly report MUST be submitted electronically once per week. The student will

be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisites: ASEP-170 or 175. Offered: On Demand.

ASTRONOMY

ASTR-110 Intro to Astronomy 4 cr.

Observation, theories, and methods of modern astronomy. General study for non-science majors. [NM Common Course Number ASTR 1114, Area III; Laboratory Science Core] Prerequisites: PHYS-111, high school chemistry, or high school physics. Offered: Fall & Spring.

ASTR-113 Constellation Mythology 3 cr.

A study of the ancient mythological stories and philosophies of world cultures as seen in the patterns of stars in the night sky. A basic grounding in Greco-Roman myths and representations of star patterns will be compared to other world cultures, including, but not limited to, Native American, Chinese, Arabic, South Pacific, and Arctic. Offered: Fall & Spring.

ASTR-120 Deep Space Astronomy 3 cr.

Conceptual study of cosmology and relativity, emphasizing the Einsteinian perceptions of gravity, matter, energy, and space-time geometry. Also examines in detail anomalistic subjects such as black holes, wormholes, "white fountains", and obstacles to superluminal ("faster than light") travel. Prerequisites: ASTR-110.

AUTO BODY

AUBO-119 Sheet Metal Welding 4 cr.

This course is designed to introduce the students to MIG welding procedures, set up and terminology used in sheet metal welding. The students will be exposed to all areas of MIG, oxy acetylene, and plasma torch industry safety. This course will provide the students with the basic knowledge and hands on experience to successfully demonstrate proper sheet metal welds in a variety of joints and welding positions. Offered: Fall & Spring.

AUBO-121 Non-Structural Repair 6 cr.

This basic auto body course is designed to develop the students understanding of general shop safety using hand tools, pneumatic tools and power tools. This course will also cover: straightening fundamentals, plastic and composite repair, panel replacement, and adjustments. Prerequisites: AUBO-119. Offered: Fall & Spring.

AUBO-122 Advanced Non-Structural Repair I 5 cr.

This course will involve the students in all phases of minor non-structural collision damage repairs. This course will encompass sheet metal repair, advanced panel replacement and alignment. Prerequisites: AUBO-121. Offered: Fall & Spring.

AUBO-123 Advanced Non-Structural Repair II 5 cr.

This course is a continuation of AUBO 122 with emphasis in all phases of minor non-structural damage repair. The student will be instructed in sheet metal repair and panel alignment as well as the R&I of automotive glass and related components. Prerequisites: AUBO-122. Offered: Fall & Spring.