

BLDT-125 Roof Framing & Shingling 6 cr.

Gain detailed knowledge of how to construct a roof using pre-engineered trusses and/or stick framing techniques. The campus laboratory experience will include constructing a house. Prerequisites: BLDT-111 and BLDT-112. Offered: Spring.

BLDT-126 Window & Door Installation 3 cr.

Learn about the many window and door products available as well as proper installation techniques. As part of the laboratory experience students will install window and door units on the house being built. Offered: Spring.

BLDT-127 Exterior Wall Applications 3 cr.

Understand the different choices for exterior wall applications. As part of their laboratory experience students will install or apply different kinds of materials. Offered: Spring.

BLDT-128 Cabinet Design 3 cr.

Understand the process of designing and installing cabinets for kitchens, bathrooms, utility rooms and other spaces. Additionally, students will learn how to construct the basic cabinet unit. Offered: Spring.

BLDT-129 Green Building Concepts 3 cr.

Understand the basics of "green building" design including the many products and structure choices available. As part of the laboratory experience students will utilize some of the products and techniques within their constructed house. Offered: Spring.

BLDT-130 Flooring Installations 3 cr.

Understand the many floor coverings available. Additionally, students will have the opportunity to work with some of these products in the installation phase of their house building project. Offered: Spring.

BLDT-131 Stair Construction 1 cr.

Learn to layout and construct basic stairs. Includes building a basic set of stairs. Offered: Spring.

BLDT-132 Building Codes 1 cr.

Gain a fundamental understanding of building codes as they apply to our industry in the United States. Some of the most widely used codes will be discussed within the classroom and laboratory setting. Offered: Spring.

BLDT-221 Construction Supervision 6 cr.

Available to degree seeking and advanced Building Trades students only. Students will be introduced to supervising through interaction with beginning students. Concentration will be on job site management and time line scheduling. Prerequisites: BLDT 110 - 115 and BLDT 125 - 132. Offered: Fall & Spring.

CHRYSLER COLLEGE AUTOMOTIVE PROGRAM

CAPP-110 Chrysler Shop-Fund and Safety 1 cr.

This course will orient the student to shop operations, use of service manuals, pay structures, tools, warranties, and customer relations. Shop safety will be strongly emphasized as well as employee/ employer relations. Corequisites: CAPP-120. Offered: Fall.

CAPP-120 Chrysler Electrical & Ignition Systems 7 cr.

A study of the electrical and electronic systems found in the automotive field. Emphasis is on basic circuitry, starting systems, charging systems, ignition systems, diagnosis and servicing the electrical components on current Chrysler vehicles. Instruction will include test equipment related to ignition, electrical, and electronic devices. Course includes specific Chrysler training. Corequisites: CAPP-110. Offered: Fall.

CAPP-125 Chrysler Hybrid Technology 3 cr.

This course will explain and demonstrate theory and operation of key Chrysler Corp. hybrid vehicle systems and components. Knowledge retention and subject understanding will be enhanced by interactive classroom components whenever possible. Procedures for handling high voltage batteries will be covered. Personal safety will be emphasized. Prerequisites: CAPP-120. Offered: Fall.

CAPP-130 Chrysler Fuel & Emission System 4 cr.

A study of the fuel and emission control systems used on current Chrysler vehicles. Students will learn to use the exhaust gas analyzer, oscilloscope, and other special test equipment. Course includes specific Chrysler training. Prerequisites: CAPP-120. Corequisites: CAPP-140. Offered: Spring.

CAPP-135 Chrysler Vehicle Networks 3 cr.

This course will explore the complex, on-board computer networks found on modern Chrysler vehicles. The CAN network will be emphasized as will the proper techniques of isolating, diagnosing, and repairing complex automotive computer networks. Safety will be emphasized. Prerequisites: CAPP-120. Corequisites: CAPP-140. Offered: Spring.

CAPP-140 Chrysler Drivability Diagnosis & Repair 4 cr.

A systematic troubleshooting method for Chrysler fuel, electrical, and electronic systems. Use of tools and equipment needed for proper diagnosis emphasized. Course includes specific Chrysler training. Prerequisites: CAPP-110 and CAPP-120. Corequisites: CAPP-130. Offered: Spring.

CAPP-145 ASE Tests 1 cr.

Register for a minimum of two ASE exams and pass one. Offered: Spring.

CAPP-146 ASE Tests 1 cr.

Take and pass remaining ASE exams. Students are required to pass a minimum of four ASE exams in order to graduate. Any tests passed in CAPP 145 are counted as part of the requirement. Prerequisites: CAPP-145. Offered: Spring.

CAPP-150 Chrysler Engines & Related Systems 4 cr.

This course covers the principles and operation of the internal combustion engine. Internal combustion engines will be properly disassembled with nomenclature identification. All parts will be inspected, measured, and reassembled. The operation and repair of the lubrication and cooling system will also be covered. Course includes specific Chrysler training. Corequisites: CAPP-160. Offered: Summer.

CAPP-155 Chrysler Advanced Air Induction Systems 2 cr.

This course covers variable valve timing, turbo chargers, and superchargers. The theory, operation, and diagnosis of each of these systems will be covered and the manufacturers diagnostic and repair procedures will be stressed. Personal and vehicle safety will be emphasized. Prerequisites: CAPP-140. Offered: Summer.

CAPP-160 Chrysler Heat & AC Systems 2 cr.

A theory and shop course to teach the student automotive air conditioning and heating systems as they apply to current model Chrysler vehicles. The use of test equipment will be emphasized and the student will learn to diagnose, evacuate, and recharge air conditioning systems. Course includes specific Chrysler training. Corequisites: CAPP-150. Offered: Summer.

CAPP-165 Chrysler Advanced HVAC Diagnosis 3 cr.

This course will cover advanced diagnosis theory and practice on Chrysler vehicle heating, air conditioning and ventilation systems. The course will address computer based HVAC controls as well as the network of sensors. Environmental and personal safety will be emphasized. Prerequisites: CAPP-140. Corequisites: CAPP-160 Offered: Summer.

CAPP-170 Chrysler Power Trains 8 cr.

The theory and practical application of automotive power trains, including clutches, transmissions, drive lines, transaxles and differential service will be taught. Diagnosis, troubleshooting and actual repair procedures will be performed on Chrysler vehicles in the shop. Course includes specific Chrysler training. Prerequisites: CAPP-160. Offered: On Demand.

CAPP-172 Chrysler Automatic Trans/Transaxles 6 cr.

The operating principles of Chrysler automatic transmissions, transaxles, and their diagnosis, electrical and electronic controls, and repair will be covered. Instruction on noise, vibration and harshness diagnosis and correction will also be covered along with mechanical and hydraulic components. Safety is emphasized. Corequisites: CAPP-175. Offered: Fall.

CAPP-175 Chrysler Manual Trans/Transaxles 5 cr.

The theory and repair of Chrysler manual transmissions and transaxles, differentials, clutches, transfer cases and drive axles will be covered. Noise, hard shifting and other common issues will be covered. Diagnosis and troubleshooting will be stressed. Safety is emphasized. Corequisites: CAPP-172. Offered: Fall.

CAPP-180 Chrysler Brake Systems 4 cr.

A study of the theory and diagnostic repair procedures of Chrysler disc and drum brake systems will be taught. Instruction will be given on brake machining equipment, hydraulic systems and component replacement on traditional and anti-lock brake systems. Course includes specific Chrysler training. Prerequisites: CAPP-170 or CAPP 175. Corequisites: CAPP-190. Offered: Spring.

CAPP-185 Chrysler ABS/Traction Control 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. Electronic power steering motors, sensors, and circuitry will be included. Safety will be emphasized. Corequisites: CAPP-180. Offered: Spring.

CAPP-190 Chrysler Steering & Suspension 4 cr.

A theory and shop course to introduce the student to Chrysler steering geometry, front and rear suspension service, wheel alignment, and wheel balancing. Lab work will include instruction on the latest model vehicles' steering and suspension systems. Course includes specific Chrysler training. Prerequisites: CAPP-170 or CAPP-175. Corequisites: CAPP-180. Offered: Spring.

CAPP-195 Chrysler 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 Chrysler vehicles. Proper service procedures and techniques will be presented. Safety will be emphasized. Corequisites: CAPP-190. Offered: Spring.

CAPP-280 Chrysler Coop Work Experience 4 cr.

The student will be employed at an approved Chrysler 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: CAPP-120. Offered: On Demand.

CAPP-281 Chrysler Coop Work Experience 4 cr.

The student will be employed at an approved Chrysler 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: CAPP-140. Offered: On Demand.

CAPP-282 Chrysler Coop Work Experience 4 cr.

The student will be employed at an approved Chrysler 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: CAPP-160. Offered: On Demand.

CAPP-283 Chrysler Coop Work Experience 4 cr.

The student will be employed at an approved DaimlerChrysler 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 by San Juan College Web course access on the Internet. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisites: CAPP-170 or CAPP 175. Offered: On Demand.

COMMERCIAL DRIVERS LICENSE**CDLT-150 CDL Composite Class 15 cr.**

This eight week program includes classroom preparation for the CDL permit tests at the MVD office. Students will also study the doubles/triples, tanker and hazmat endorsements as well as regulations related to commercial vehicle operation. After