

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

obtaining a CDL learner's permit, the students spend four weeks practicing driving skills in preparation for the CDL driving test which is included as part of the class. Offered: All.

CDLT-151 CDL Permit Class 6 cr.

This course will provide students with specific information to assist in passing the NM MVD exams for general knowledge, air brakes and combination vehicles to obtain a Class "A" CDL (Commercial Vehicle) permit. Offered: On Demand.

CDLT-153 CDL Class "A" Training 7 cr.

This five week driving only course will prepare the student to take the CDL driving test in a Class A commercial vehicle. It includes instruction on pre-trip inspection, backing skills and highway driving in a combination vehicle with a gross weight rating over 26,000 lbs. The CDL driving exam is included. Offered: On Demand.

CDLT-154 CDL Class "B" Training 2.5 cr.

This two week driving only course will prepare the student to take the CDL driving test in a Class B commercial vehicle. It includes instruction on pre-trip inspection, backing skills and highway driving in a straight truck with a gross weight rating over 26,000 lbs. The CDL driving exam is included. Offered: On Demand.

CDLT-155 CDL Class C Training 2.5 cr.

This two week driving only course will prepare the student to take the CDL driving test in a Class C commercial vehicle. It includes instruction on pre-trip inspection, backing skills and highway driving in a commercial vehicle with a gross weight rating below 26,001 lbs. This applies to vehicles displaying hazmat placards or carrying 16 or more passengers. The CDL driving exam is included. Offered: On Demand.

CDLT-156 CDL Upgrade Training 1.5 cr.

This one week class will prepare an experienced Class B driver to upgrade to a Class A CDL. The CDL driving exam is included. Offered: On Demand.

CDLT-157 CDL Refresher Training 2 cr.

This one week class provides driving practice for a previous Class A CDL holder who needs to re-take the CDL exam to obtain the license again. The CDL exam is included. Offered: On Demand.

CDLT-158 CDL Air Brake Training .5 cr.

This is a one day driver training course which covers the operation of air brake systems including inspection and adjustment. A training card is provided. Offered: On Demand.

CDLT-160 CDL Log-Book Training .5 cr.

This one day driver training course covers the Hours of Service Regulations for commercial vehicle operators including the procedure for maintaining a log book and monthly summary sheet. Offered: On Demand.

CDLT-161 Pro Truck Driver DDC .5 cr.

This professional truck driver defensive driving course is presented using National Safety Council training materials. A certificate of completion and wallet card are provided. Offered: On Demand.

CDLT-163 CDL Permit/Pro Driver 8 cr.

This 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. Offered: On Demand.

CDLT-164 CDL Novice Driver 6 cr.

This course focuses on industry specific classroom and driving skills for the novice CDL driver. Students must be sponsored by an employer. CDL exam is included. Offered: All.

CDLT-165 CDL Driver Evaluation .5 cr.

This is an evaluation of basic CDL driving skills for a CDL holder who is a new employee of a company that operates commercial vehicles. Offered: All.

CDLT-166 CDL Brush Up Training 1 cr.

This training class is for a current CDL holder who lacks recent driving experience. Its purpose is to prepare the driver to apply for a truck driving job. Offered: All.

CDLT-167 CDL Preparation Class 4 cr.

This is a specially scheduled knowledge review class to prepare students to operate an industry specific commercial vehicle. Offered: All.

CDLT-169 CDL Hazmat Materials Test Prep .5 cr.

This one day class covers the material necessary to pass the CDL Hazmat test at the MVD office. A background check at the MVD office is subsequently required to add the endorsement to a driver's CDL (not included in the class). Offered: All.

CHEMISTRY

CHEM-110 Introductory Chemistry 4 cr.

An introductory survey of basic chemistry including scientific and dimensional analysis, states of matter, atomic and molecular structure, reaction dynamics, acid-base systems, and electrochemistry. Fulfills lab science requirement for non-science majors, and as an introductory course for students with no prior chemistry. Prerequisites: Completion of MATH-096 or appropriate Accuplacer Math Score. Offered: All.

CHEM-111 General Chemistry I 4 cr.

Part one of the general study of chemistry, including scientific and dimensional analysis, metathesis and redox reactions, thermochemistry, atomic structure, chemical bonding, molecular geometry, gases, liquids, and solids. For engineering and pre-professional majors. Prerequisites: Completion of MATH-115 or appropriate Accuplacer Math Score. Completion of CHEM 110 with a C or better or high school chemistry with a grade of B or better in the last 4 years. Offered: Fall & Spring.

CHEM-112 General Chemistry II 4 cr.

Part two of the general study of chemistry including kinetics, equilibrium, acid-base systems, thermodynamics, electrochemistry, nuclear chemistry, industrial processes, and coordination chemistry. For engineering and pre-professional majors. Prerequisites: MATH-185 and CHEM-111. Offered: Fall & Spring.