

homeostatic processes and regulation. Physical and chemical operation of organs and systems of the human body, including the integumentary, skeletal, muscular and nervous systems. Prerequisites: BIOL-121. CHEM-110 and H1TP-110 is strongly recommended. High school biology within the last 5 years may be accepted. Offered: All.

BIOL-253 Human Anatomy & Physiology II 4 cr.
Physical and chemical operation of the organs and systems of the human body, including endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary and reproductive. Basic concepts of metabolism, energy, fluid and electrolyte balance, heredity and human development. Prerequisites: BIOL-252 Offered: All.

BIOL-255 Introduction to Genetics 4 cr.
This course will provide an introduction to modern genetic principles, including mechanisms of inheritance (Mendelian rules and non-Mendelian inheritance), molecular genetics, population genetics, and modern genetic laboratory techniques. Prerequisites: BIOL-121. Offered: Fall.

BIOL-260 Introduction to Cell Biology 4 cr.
A detailed look at the composition and organization of cells, biochemistry and bioenergetics, molecular genetics, and cellular interactions. Major modern research tools will also be explored. Prerequisites: BIOL-121 and CHEM-111. Offered: Spring.

BIOL-281 Pathophysiology I 3 cr.
This is the first of a two semester course designed for students pursuing degrees in allied health or biological sciences. The initial material covers the central concepts of cellular and tissue pathophysiology. Thereafter, a systematic survey of genetic diseases, cancer, and the diseases of the immune, nervous, endocrine, and reproductive systems is undertaken. The etiology, pathophysiology, clinical manifestations, and other clinical considerations are discussed. Prerequisites: BIOL-252. Offered: Fall.

BIOL-282 Pathophysiology II 3 cr.
The second semester of pathophysiology builds on the information acquired during the first semester. The systematic survey of diseases continues with the hematologic, cardiovascular, respiratory, urinary, digestive, musculoskeletal, and integumentary systems. The etiology, pathophysiology, clinical manifestations and other clinical considerations are discussed. Prerequisites: BIOL-281. Offered: Spring.

BUSINESS LAW

BLAW-230 Business Law 3 cr.
This course is a general introduction to law with business applications. This course will cover the courses of law in the United States; dispute resolution and the court systems in the United States; a study of the law of torts to include negligence, intentional torts, and strict liability; and the essential aspects of contract law, including how contracts are formed, breaches of contract, and remedies available for breach of contract. This course will also cover the law of sales from Article 2 of the Uniform Commercial Code, negotiable instruments from Articles 3 and 4

of the Uniform Commercial Code, and Secured Transactions from Article 9 of the Uniform Commercial Code. [NM Common Course Number: BLAW 2113, Business Transfer Module]. Offered: All.

BLAW-231 Business Law II 3 cr.
This course will provide a study of the various types and formations of business organizations from sole proprietorships, partnerships, corporations, limited liability companies to business organizations found on the Navajo Nation. This course will also cover the law of sales from Article 2 of the Uniform Commercial Code, negotiable instruments from Articles 3 and 4 of the Uniform Commercial Code, and Secured Transactions from Article 9 of the Uniform Commercial Code. The course will also cover poverty law, including bailments and the characteristics of real and personal property. [NM Common Course Number: BLAW 2123, Business Transfer Module]. Prerequisites: LEAS-121 and LEAS-127 or take BLAW-230. Offered: Spring.

BLAW-263 Occupational Safety Law 1 cr.
This course is a general overview of the laws as applied to and concerning the management of occupational safety and health, specifically Worker's Compensation law and broadly the Occupational Health and Safety Act. Prerequisites: Completion of RDNG-113 or appropriate Reading Accuplacer score. Offered: On Demand.

BUILDING TRADES

BLDT-110 Basic Blueprint Reading & Design 2 cr.
Learn to read and interpret a basic set of house plans. Students also complete a set of plans of their own design, based on the parameters given by the instructor. Emphasis on sound floor plan design and mechanical illustration. Offered: Fall.

BLDT-111 Foundations & Floor Framing 3 cr.
This course will teach the basics of site layout, building foundations, and floor framing. The on-campus laboratory experience will include construction of a house. Offered: Fall.

BLDT-112 Fundamentals of Wall Framing 6 cr.
Learn to layout walls and construct exterior and interior wall sections. Students will gain a strong knowledge of all the components that go into those framed units. Offered: Fall.

BLDT-113 Insulation and Drywall 3 cr.
Learn about the use and installation of insulation products and systems available for use in residential and commercial applications. Students will also learn the proper techniques used in the installation of drywall and the taping and texturing phase. Offered: Fall.

BLDT-114 Practical Cost Estimating 3 cr.
Learn to accurately estimate material costs on basic building projects. This course includes a laboratory project whereby students estimate the materials needed, construct the project and then do a follow up on the accuracy of their estimations. Offered: Fall.

BLDT-115 Finish Carpentry & Painting 5 cr.
Learn to install baseboards, doors and casings, and other miscellaneous moldings. Students will also design and build closet organizers. Additionally the course teaches proper paint techniques in brush, roller, and spray applications. Offered: Fall.

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.