

CHEM-210 Organic Chemistry Survey 4 cr.

A one semester survey for students requiring a brief coverage of important classes of organic compounds and their application to metabolism. Coverage includes nomenclature, preparation, chemical transformations of functional groups and reaction mechanisms. Prerequisites: CHEM-110 or CHEM-111. Offered: On Demand.

CHEM-251 Organic Chemistry I 4 cr.

Part one of the study of carbon compound chemistry covering: atomic and molecular orbitals; structure and reaction mechanisms of alkanes, alkenes, and alcohols; laboratory synthesis; gas chromatography; infrared, mass, and nuclear magnetic resonance spectroscopies. For pre-professional majors. Prerequisites: CHEM-112 or CHEM-111. CHEM-112 is recommended. Offered: Fall.

CHEM-252 Organic Chemistry II 4 cr.

Part two of the study of carbon compound chemistry covering: structure and reaction mechanisms of carboxyl, amine, conjugated, and polyfunctional systems; ultraviolet spectroscopy; bio-chemistry; and synthetic polymers. Prerequisites: CHEM-251. Offered: Spring.

CHEM-281 Analytical Chemistry 5 cr.

Fundamentals of instrumental chemical analysis. Topics include: statistical methods, digital control and data acquisition, gas/liquid chromatography, emission/absorption spectroscopy, capillary electrophoresis, volumetric, gravimetric, and electrochemical analysis. For chemistry and some pre-professional majors. Prerequisites: CHEM-112. Offered: On Demand.

COMPUTER GRAPHICS**COGR-160 Computer Graphics I 4 cr.**

This introductory course includes concepts of computer graphics, modeling techniques, interfaces, terminology, and color theory; principles of two-dimensional computer animation, image processing, and presentation media; and computer design theory. Primary emphasis upon PC computer software to produce animations of logos, titles and text, graphs, cartoon characters, cycling colors and special effects; presentation software; desktop publishing; and still image processing. Theory will include design criteria, storyboard preparation, image manipulation, and hands-on computer use for instructional, marketing, graphic design, and artistic purposes. Offered: Fall.

COGR-165 Computer Graphics II 4 cr.

An introductory, hand-on study of the concepts and techniques required to create 3D graphics and animations including modeling and navigating in a computer 3D workspace, image mapping and lighting, and keyframe and kinematic animation. Offered: Spring.

COMMUNICATIONS AND MEDIA**COME-120 Survey of Mass Media 3 cr.**

A study of contemporary communication systems including radio, TV, newspaper, magazines and the Internet for use in public relations, advertising, and propaganda. Offered: Spring.

COME-127 Communication Practicum 3 cr.

Students will work in supervised job training opportunities. They will be trained for the transition from school to the world of work.

Theory and skills in both video and radio are integrated for maximum student job success. Job sites include the college radio and video departments and commercial broadcast facilities in the region. Prerequisites: COME-130. Offered: On Demand.

COME-130 Broadcast Systems 3 cr.

A basic course introducing operational procedures and practices in radio and television broadcast studios; procedures in the broadcast field which affect studio operations, including control room safety procedures, continuity and traffic, station operations, cameras and microphones, remote equipment, FCC operating requirements, and production. Offered: On Demand.

COME-132 Recording & Sound Tech I 3 cr.

Introduction to the roles and duties of the audio producer. This course will provide familiarity with recording and sound reinforcement techniques. Includes hands-on experience with sound systems in various music recording and performance situations. Also offered as MUSI 175. Offered: On Demand.

COME-134 Video Production I 3 cr.

Introduction to the roles and duties of the video producer and director in field and studio environments. Students will be studying composition, lighting techniques, and various script styles. Students will work in production teams in the field and studio to produce a video project in consultation with the instructor. Offered: On Demand.

COME-232 Recording & Sound Tech II 3 cr.

A continuation of COME 132 with emphasis on advanced recording techniques. Prerequisites: COME-132. Offered: On Demand.

COME-234 Video Production II 3 cr.

A continuation of COME 134 with emphasis on advanced video production techniques. Prerequisites: COME-134. Offered: On Demand.

COME-281 Cooperative Education 1 cr. TO 3 cr.

Cooperative Education is a planned instructional program designed to enhance the students learning experience by coordinating actual on-the-job training related to his/her curriculum with classroom work. Individual learning objectives will be developed that are measurable and observable. The student will be evaluated jointly by college personnel and the employer. Offered: On Demand.

COMMUNICATION STUDIES**COMM-110 Public Speaking 3 cr.**

The purpose of this class is to develop students' public speaking skills so that they can become more confident and effective speakers. Students will write and present both persuasive and informative speeches. [NM Common Course Number COMM 1113, Area I; Communications]. Prerequisites: Placement into RDNG-095 and ENGL-095 or appropriate Reading and English Accuplacer scores. Offered: All.

COMM-111 Interpersonal Communication 3 cr.

This course is designed to increase student's awareness of the role that interpersonal communication plays in creating and maintaining personal and professional relationships. Emphasis of instruction is on improving one-to-one communication skills.

Topics covered include self-concept, perception, non-verbal communication, listening, feedback, and effective use of language. [NM Common Course Number COMM 1213, Area I; Communications]. Prerequisites: Placement into RDNG-095 and ENGL-095 or appropriate Reading and English Accuplacer scores. Offered: All.

COMM-120 Bus & Prof Communication 3 cr.

This course develops the interpersonal, small group, and public communication skills most useful in business and professional organizations. Prerequisites: Placement into RDNG-095 and ENGL-095 or appropriate Reading and English Accuplacer scores. Offered: Spring.

COMM-225 Small Group Communication 3 cr.

Teamwork is an increasingly important concept in today's work place. Students in this course will learn to effectively interact in teams by studying the following small group communication phenomena: group roles; group norms; leadership; group decision-making; and problem-solving. Students will be expected to apply textbook and lecture material to an extensive group project. Prerequisites: Completion of RDNG-113 or appropriate Reading Accuplacer score. Offered: On Demand.

NATURAL GAS COMPRESSION

COMP-112 Natural Gas Engine Repair/Overhaul 5 cr.

To provide students with techniques and procedures to overhaul and repair natural gas engines to OEM specifications. The course includes a complete disassembly and reassembly of a variety of most commonly used natural gas engines. Pre-requisites: Student must understand the basics of engine theory in order to disassemble and reassemble the natural gas engine/or equivalent work experience. Offered: Fall. Faculty Permission Required.

COMP-113 Natural Gas Engine Theory 3 cr.

This course will assist students in developing knowledge of the natural gas fueled internal combustion engine and its subsystem. It includes: air intake systems, exhaust systems, lubrication and cooling systems, basic ignition functions, fuel gas analysis and basic fuel systems. Students must have CPT or equivalent, DOT Medical Exam, and Drug Test. Offered: All. Faculty Permission Required.

COMP-116 Introduction to Compression .5 cr.

This course will assist students in developing basic knowledge of natural gas compression basics and associated equipment. Offered: On Demand. Faculty Permission Required.

COMP-118 Gas Engine Technology 2 cr.

This course will assist students in developing basic knowledge of the natural gas fueled internal combustion engine. Offered: Summer.

COMP-121 Natural Gas Preventative Maintenance 2 cr.

Students will become familiar with a variety of OEM procedures for performing natural gas engine preventative maintenance on various natural gas engines. Pre-requisites: Students must have a working knowledge of natural gas engine theory and overhaul/ or have equivalent work experience. Offered: Fall. Faculty Permission Required.

COMP-122 Natural Gas Engine Auxiliary Equipment 2 cr.

This course examines auxiliary equipment as associated with various types of natural gas compression units. Students will become skilled in correct procedures for preventative maintenance on auxiliary equipment. Pre-requisites: Students must recognize the natural gas engine and understand overhaul procedures/ or have equivalent work experience. Prerequisites: COMP-111, COMP-112, and COMP-121. Minimum grade required: C. Offered: Fall. Faculty Permission Required.

COMP-124 Natural Gas Engine Troubleshooting 2 cr.

Develop knowledge and skills to effectively troubleshoot common problems associated with natural gas engines. Students will gain the knowledge needed to diagnose and repair problems associated with natural gas engines. Pre-requisites: Must have a working knowledge of natural gas engine theory and overhaul. Knowledge and skills in basic electrical diagnostics is essential to develop troubleshooting/or have equivalent work experience. Prerequisites: COMP-111, COMP-112, COMP-121, COMP-122, and COMP-123. Minimum grade required: C. Offered: Fall. Faculty Permission Required.

COMP-126 Natural Gas Electrical Diagnostics 2 cr.

Study of techniques and procedures to correctly troubleshoot and diagnose electrical problems associated with natural gas compression. Safety will be strictly enforced. Prerequisites: COMP-113, COMP-112, COMP-121, and COMP-122. Offered: All.

COMP-147 Intro to Nat. Gas Engine & Com 2 cr.

Class will introduce students to internal combustion engines (natural gas), reciprocating and screw type compressors and formulas for calculating horsepower and cylinder gas volumes. Students will participate in a class project for teamwork, to assemble an economic outlook and PowerPoint presentation for a hypothetical field operation. Safety will be strictly enforced. Offered: All. Faculty Permission Required.

COMP-190 Natural Gas Compression Coop Work Exp. 6 cr.

This course studies natural gas compressor engine preventative maintenance and provides students with the techniques, skills and procedures to adequately perform routine maintenance. Minimum grade required: C. Prerequisites: COMP-111, COMP-112, COMP-121, COMP-122, COMP-123, COMP-124. Offered: Spring. Faculty Permission Required.

COMP-218 VGF Technology 2 cr.

This course will assist students in developing knowledge of the VGF Waukesha and large horsepower natural gas fueled internal combustion engine. Prerequisites: COMP-118. Offered: Summer. Faculty Permission Required.

COMP-233 Natural Gas Compression Theory 2 cr.

The study of Basic Compressor Theory. Students will gain techniques, skills and procedures to appropriately recognize the principles of compression. Safety will be strictly enforced. Offered: All.

COMP-234 Natural Gas Compressor Repair/Overhaul 2 cr.

Study of natural gas compressor repair and overhaul. Students will develop skills and techniques for overhaul and repair of natural gas compressors as required by OEM. Offered: All.