**Technical Education**

**Associate Degree:**

**Business Administration:**

ENMU Ruidoso

* Demonstrate the business skills needed to gain employment among a variety of business enterprises.
* Demonstrate the ability to apply the basic business functions of accounting, economics, finance, management, and marketing to become a successful business owner.
* Obtain an Associate of Arts Degree that will meet requirements toward a Bachelor of Business Administration.

Santa Fe Community College

* Describe the functions and purpose of management in the business environment.
* Read and prepare financial statements.
* Identify the relationship between business and the American legal system.
* Recognize the basic features of economic systems and explain why societies develop such systems.
* Investigate the relationships among ethics, law
and social responsibility in organizational
decision-making and evaluate organizational performance accordingly.
* Communicate clearly and effectively, both orally and in writing, using appropriate office technologies.

**Criminal Justice:**

ENMU Ruidoso

* Describe the historical development, roles, interrelationships, and criminal justice system functions of agencies, actors, structures, and operations of criminal justice agencies.
* Identify and describe major national measures of crime and major theories on causes of criminality.
* Explain functions of criminal laws, Constitutional limitations on laws, and application of laws in criminal courts.
* Identify current trends in crime, police techniques, offender sentencing, corrections practices, and offender reintegration.

Santa Fe Community College

* Discuss the major concepts, theories, empirical findings, patterns, types, and root causes of crime.
* Use critical thinking and the scientific approach to solve problems in the criminal justice system.
* Communicate with professionalism and clarity during victim or suspect interviews.
* Communicate with professionalism and clarity when testifying from a written report in a court of law.
* Apply investigative techniques and critical thinking skills to bring a case to its logical conclusion.
* Interact and display professional and ethical behavior in diverse environments while communicating with law enforcement agencies, courts, attorneys, clients, witnesses and the public.
* Demonstrate knowledge of crime and justice, policing, laws, Constitutional requirements, legally defined procedures, courts and corrections when applied to the diverse and multicultural nature of society.

**Human Services: (TE)**

Santa Fe Community College

* Demonstrate effective helper communication.
* Understand and apply helping skills theory
and competencies.
* Research and classify human services agencies for case management referrals.
* Interact professionally in diverse environments and demonstrate ethical behavior.
* Perform professionally in a human services agency in the community.

**Professional Pilot Training – Fixed Wing:**

Clover Park Technical College

* Conduct appropriate preflight preparation that assesses current and forecast weather, predicted aircraft performance, loading and navigational requirements.
* Demonstrate the ability to plan cross-country flights in the national airspace system.
* Demonstrate knowledge of aircraft systems and instruments.
* Effectively communicate and comply with air traffic control.
* Demonstrate proficiency in normal, short, and soft field take-offs and landings.
* Perform minimum controllable airspeed and stall maneuvers.
* Demonstrate selected ground reference maneuvers.
* Demonstrate knowledge and proficiency in emergency procedures and operations.
* Control the aircraft solely by reference to aircraft flight and navigational instruments.
* Conduct instrument approaches.
* Perform and demonstrate proficiency in high-performance commercial pilot maneuvers.
* Pass appropriate FAA practical test required for pilot certification on the first attempt

**Automotive Technology:**

UNM Gallup

* Enrolled students will learn fundamental automotive services and approved ASE curricula from basic engine services, to computerized fuel delivery systems, anti-lock braking systems, steering and suspension systems, computerized engine and transmission controls and much more.
* The training provided will have an emphasis on basic skills and principles which allow participants to adapt to new and changing technologies.
* Entering students will study through class lectures and hands on training and further study in the ASE automotive specialty areas of A1-A8
* Use critical thinking and establish a framework to provide safe and effective services for the students, college campus and community.
* Display professionalism, communication skills, including a commitment to lifelong learning.

Santa Fe Community College

* Demonstrate service, diagnostic, and repair procedures required by dealership and private repair facilities
* Service and repair modern automotive vehicles while addressing all National Highway Traffic Safety Administration standards and environmental concerns
* Demonstrate the safe operation of tools and equipment associated with the automotive repair industry
* Demonstrate professionalism in dealing with the public, manufacturers, certification agencies, independent businesses, and governmental agencies

**Aviation Maintenance Technology:**

Clover Park Technical College

* Develop and apply skills necessary for employment as defined by specific industry needs.
* Meet & Exceed FAA requirements for testing for A&P Mechanic certificates.
* Develop the skills and knowledge to successfully pass the FAA written exams.
* Become competent in the skills, knowledge, and techniques necessary to successfully pass FAA oral and practical exams for certification.
* Employ expanded Rotary Wing maintenance training as an integral part of AMT program.

**Computer Applications and Support:**

Santa Fe Community College (CIT)

* Identify the function of a variety of computer software applications.
* Provide accurate technical explanations of the role of the major components of a PC.
* Perform routine network administrative tasks, including Network Operating System (NOS) installations and upgrades, user administration, and resource sharing.
* Troubleshoot and repair various network and
PC problems.
* Identify, organize, plan, and allocate resources effectively in the computer work environment.

**Engineering and Design Technology:**

Santa Fe Community College

* Evaluate and communicate design goals, constraints, and methodology within the engineering fields of discipline.
• Evaluate, construct, and utilize design models to identify and solve problems related to project management.
• Implement engineering design methodology to predict both primary and alternative solutions.
• Evaluate and solve engineering problems related to course content.
• Articulate and justify both technical considerations and solutions through oral, written, and graphical communication methods in engineering problems.
• Effectively solve problems in teams
• Demonstrate an understanding of professional and ethical responsibility in the field of engineering.

**HVAC:**

Community College of Baltimore County

* apply for and acquire an entry-level position in the HVAC field;
* exhibit the highest level of confidence servicing and installing HVAC systems;
* excel within a company after several years, and rise to a supervisor/management level;
* achieve a broad knowledge of all applications of HVAC, both practical and scientific; and
* develop both a safe and moral approach to the HVAC field.

**Media Arts:**

Santa Fe Community College (Film)

* Illustrate the relationship between film and other artistic mediums.
* Express themselves through the vocabulary of film.
* Demonstrate storytelling from idea to script to production using current technologies.
* Design and model the collaborative process
of filmmaking.
* Demonstrate a broad understanding of the global impact of media.

Santa Fe Community College

* Demonstrate proficiency in written, oral and visual communication within a variety of electronic media.
* Demonstrate proficiency in a variety of electronic media.
* Develop professional portfolios.
* Demonstrate proficiency in project management.

**Occupational Safety Engineering and Environmental Management Technologies:**

Santa Fe Community College (Engineering and Engineering Technology)

* Evaluate, construct, and utilize design models to identify and solve problems related to project management.
* Implement engineering design methodology to predict both primary and alternative solutions.
* Evaluate and solve engineering problems related to course content.
* Articulate and justify both technical considerations and solutions through oral, written and graphical communication methods in engineering problems.
* Effectively solve problems in teams.
* Demonstrate an understanding of professional and ethical responsibility in the field of engineering

**Police Science:**

ENMU Ruidoso

* Describe the historical development, roles, interrelationships, and criminal justice system functions of agencies, actors, structures, and operations of criminal justice agencies.
* Identify and describe major national measures of crime and major theories on causes of criminality.
* Explain functions of criminal laws, Constitutional limitations on laws, and application of laws in criminal courts.
* Identify current trends in crime, police techniques, offender sentencing, corrections practices, and offender reintegration.

**Professional Pilot Training – Unmanned Ariel Systems:**

Community College of Baltimore County

* demonstrate leadership, teamwork, managerial, and organizational skills within the aviation industry;
* analyze and assess airline and airport operations, government regulations, and safety and environmental concerns to plan and implement appropriate strategic and tactical business methodologies;
* demonstrate flight proficiency and instrument rating, safety, and procedural skills to obtain FAA licensure required to secure a position as a commercial flight pilot; and
* speak and communicate clearly and decisively using standard industry pilot-controller phraseology.

**Welding Technology:**

Santa Fe Community College

* Provide leadership in creating and maintaining a safe working environment.
* Select tools, equipment and materials based on characteristics and properties for necessary welding procedures.
* Display manipulative skills with the various welding processes (oxy-acetylene, shielded metal arc, gas metal arc, flux cored arc, gas tungsten, etc.) to assure adequate weld integrity and appearance.
* Interpret blueprint welding symbols to fabricate components.
* Apply basic math skills and geometry to correctly identify and solve welding problems.

**Certificates**

**Aviation Maintenance Technology:**

Clover Park Technical College

* Develop and apply skills necessary for employment as defined by specific industry needs.
* Meet & Exceed FAA requirements for testing for A&P Mechanic certificates.
* Develop the skills and knowledge to successfully pass the FAA written exams.
* Become competent in the skills, knowledge, and techniques necessary to successfully pass FAA oral and practical exams for certification.
* Employ expanded Rotary Wing maintenance training as an integral part of AMT program.

**Computer and Network Cyber Security:**

Santa Fe Community College (Computer and Network Security)

* Explain how information technologies gather, store, process and communicate information.
* Demonstrate an understanding of cyber security implementation issues and policies from multiple perspectives including from an organizational, managerial, technician and an end user experience.
* Articulate the risks and threats to an organization’s data.
* Demonstrate methods of addressing and safeguarding critical electronic assets.
* Demonstrate how network security relates to other areas of information technology.
* Demonstrate professional readiness in the areas of privacy, intellectual property rights, ethics and codes of conduct.

**Workforce Interpersonal Effectiveness:**

Marketing Institute of Singapore

* Understand the types and impact of interpersonal relationships.
* Develop the qualities of interpersonal skills for personal and team effectiveness.
* Manage emotions of self and others for positive relationship.
* Build positive interpersonal communication skills.
* Improve non-verbal communication to read others easily and accurately.
* Work with people whose personalities and communication styles are different from you.
* Increase your people power to connect and rapport with people effortlessly.
* Deliver criticism and solve conflict in a constructive manner.
* Handle diverse and difficult people with less stress and more understanding.
* Identify and eliminate interpersonal habits in your personal action plan.

**Automotive Technology:**

UNM Gallup

* Enrolled students will learn fundamental automotive services and approved ASE curricula from basic engine services, to computerized fuel delivery systems, anti-lock braking systems, steering and suspension systems, computerized engine and transmission controls and much more.
* The training provided will have an emphasis on basic skills and principles which allow participants to adapt to new and changing technologies.
* Entering students will study through class lectures and hands on training and further study in the ASE automotive specialty areas of A1-A8
* Use critical thinking and establish a framework to provide safe and effective services for the students, college campus and community.
* Display professionalism, communication skills, including a commitment to lifelong learning.

Santa Fe Community College

* Demonstrate service, diagnostic, and repair procedures required by dealership and private repair facilities
* Service and repair modern automotive vehicles while addressing all National Highway Traffic Safety Administration standards and environmental concerns
* Demonstrate the safe operation of tools and equipment associated with the automotive repair industry
* Demonstrate professionalism in dealing with the public, manufacturers, certification agencies, independent businesses, and governmental agencies

**Bookkeeping/Accounting:**

ENMU Ruidoso

* Demonstrate the accounting skills needed to meet the demand in the industry.
* Demonstrate the accounting skills needed to obtain the designation of Certified Bookkeeper.
* Demonstrate the accounting skills needed to continue toward meeting the requirements for an Associate’s of Applied Science Degree in Accounting.
* Apply a basic foundation in accounting to other business functions such as economics, finance, management, and marketing.

**Business Assistant Administrator:**

Community College of Rhode Island

* Read, understand, and prepare standard types of business documents
* Possess appropriate technological skills including: operating systems, word processing (including keyboarding), spreadsheets, database management and the Internet as a research tool
* Use appropriate office procedures as related to records information management, telephone communications, and mail management
* Produce accurate business documents and reports using computer technology and applying appropriate editing and language skills
* Understand and perform office accounting and recordkeeping functions as related to a service business, including computerized applications
* Demonstrate effective interpersonal skills in a business environment in order to complete individual and team projects

**Commercial Refrigeration:**

Manhattan Area Technical College

* Diagnose and repair electrical and mechanical problems in heating and cooling systems.
* Design residential heating and air conditioning systems.
* Operate heating and air conditioning equipment properly.
* Maintain a professional appearance in the workplace.
* Demonstrate interpersonal skills in greeting customers, explaining repairs, and discussing the approximate cost of the service.
* Inspect work areas and correct safety hazards.
* Work cautiously and safely.
* Demonstrate safe removal procedures from electrical and mechanical components

**Computer Applications and Support:**

Santa Fe Community College (CIT)

* Identify the function of a variety of computer software applications.
* Provide accurate technical explanations of the role of the major components of a PC.
* Perform routine network administrative tasks, including Network Operating System (NOS) installations and upgrades, user administration, and resource sharing.
* Troubleshoot and repair various network and
PC problems.
* Identify, organize, plan, and allocate resources effectively in the computer work environment.

**Culinary Arts:**

Santa Fe Community College

* Create and maintain a safe, organized and sanitary kitchen work station.
* Demonstrate proper care and use of knives.
* Describe how purchasing and inventory management affect operational success.
* Produce correctly cooked, nutritious and visually appealing menus and meals.
* Demonstrate the ability to use standard kitchen equipment safely and correctly.

**Engineering and Design Technology:**

Santa Fe Community College

* Evaluate and communicate design goals, constraints, and methodology within the engineering fields of discipline.
* Evaluate, construct, and utilize design models to identify and solve problems related to project management.
* Implement engineering design methodology to predict both primary and alternative solutions.
* Evaluate and solve engineering problems related to course content.
* Articulate and justify both technical considerations and solutions through oral, written, and graphical communication methods in engineering problems.
* Effectively solve problems in teams
* Demonstrate an understanding of professional and ethical responsibility in the field of engineering

**HVAC – Refrigeration Technology:**

Community College of Baltimore County

* apply for and acquire an entry-level position in the HVAC field;
* exhibit the highest level of confidence servicing and installing HVAC systems;
* excel within a company after several years, and rise to a supervisor/management level;
* achieve a broad knowledge of all applications of HVAC, both practical and scientific; and
* develop both a safe and moral approach to the HVAC field.

**Management Training:**

ENMU Ruidoso (Hotel, Restaurant, & Tourism Management)

* Transfer skills obtained through course work to real world and professional experiences.
* Apply basic knowledge to a wide variety of industry segments such as front desk, sales, human resources and line supervision.
* Pursue a Bachelor degree from a four - year university in hospitality and tourism or business

**Professional Pilot Training – Unmanned Ariel Systems:**

Community College of Baltimore County

* demonstrate leadership, teamwork, managerial, and organizational skills within the aviation industry;
* analyze and assess airline and airport operations, government regulations, and safety and environmental concerns to plan and implement appropriate strategic and tactical business methodologies;
* demonstrate flight proficiency and instrument rating, safety, and procedural skills to obtain FAA licensure required to secure a position as a commercial flight pilot; and
* speak and communicate clearly and decisively using standard industry pilot-controller phraseology.

**Automotive Technology – Brakes/Level I/Diesel:**

UNM Gallup

* Enrolled students will learn fundamental automotive services and approved ASE curricula from basic engine services, to computerized fuel delivery systems, anti-lock braking systems, steering and suspension systems, computerized engine and transmission controls and much more.
* The training provided will have an emphasis on basic skills and principles which allow participants to adapt to new and changing technologies.
* Entering students will study through class lectures and hands on training and further study in the ASE automotive specialty areas of A1-A8
* Use critical thinking and establish a framework to provide safe and effective services for the students, college campus and community.
* Display professionalism, communication skills, including a commitment to lifelong learning.

Santa Fe Community College

* Demonstrate service, diagnostic, and repair procedures required by dealership and private repair facilities
* Service and repair modern automotive vehicles while addressing all National Highway Traffic Safety Administration standards and environmental concerns
* Demonstrate the safe operation of tools and equipment associated with the automotive repair industry
* Demonstrate professionalism in dealing with the public, manufacturers, certification agencies, independent businesses, and governmental agencies

**Commercial Driver’s License:**

Peninsula College

* Safely operate a commercial vehicle.
* Inspect a commercial vehicle.

**Construction Trades:**

Santa Fe Community College (Building Science and Construction Technologies)

* Build or design models of systems in building science and construction.
* Diagnose complex situations in specific building fields.
* Explain cause-effect relationships as they relate to building science.
* Demonstrate the ability to work as part of a team on the job site.
* Describe construction-based scenarios clearly
and accurately.

**Engineering and Design Technology – Architecture/Surveying:**

Santa Fe Community College

* Evaluate and communicate design goals, constraints, and methodology within the engineering fields of discipline.
* Evaluate, construct, and utilize design models to identify and solve problems related to project management.
* Implement engineering design methodology to predict both primary and alternative solutions.
* Evaluate and solve engineering problems related to course content.
* Articulate and justify both technical considerations and solutions through oral, written, and graphical communication methods in engineering problems.
* Effectively solve problems in teams
* Demonstrate an understanding of professional and ethical responsibility in the field of engineering

**Human Services – Alcohol & Drug Abuse Studies/ Helping Relationship Skills:**

Santa Fe Community College

* Demonstrate effective helper communication.
* Understand and apply helping skills theory
and competencies.
* Research and classify human services agencies for case management referrals.
* Interact professionally in diverse environments and demonstrate ethical behavior.
* Perform professionally in a human services agency in the community.

**Industrial Engineering Technology – Construction Trades:**

Wayne State University

* An ability to apply knowledge of mathematics, science and engineering.
* An ability to design and conduct experiments, as well as to analyze and interpret data.
* An ability to design a system, component or process to meet desired needs.
* An ability to function on multidisciplinary teams.
* An ability to identify, formulate and solve engineering problems.
* An ability to understand professional and ethical responsibility.
* An ability to communicate effectively.
* An ability to design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
* A recognition of the need for, and an ability to engage in life-long learning.
* A knowledge of contemporary issues. (Emerging issues important to professional practice.)
* An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

**Media Arts:**

Santa Fe Community College (Film)

* Illustrate the relationship between film and other artistic mediums.
* Express themselves through the vocabulary of film.
* Demonstrate storytelling from idea to script to production using current technologies.
* Design and model the collaborative process
of filmmaking.
* Demonstrate a broad understanding of the global impact of media.

Santa Fe Community College

* Demonstrate proficiency in written, oral and visual communication within a variety of electronic media.
* Demonstrate proficiency in a variety of electronic media.
* Develop professional portfolios.
* Demonstrate proficiency in project management.

**Occupational Safety Engineering and Environmental Management Technologies – Safety Trained Technician Level I /Safety Trained Manager / Certified Occupational Safety Technician/ Certified Occupational Safety & Health Specialist/ Certified Occupational Safety and Health Trainer:**

Santa Fe Community College (Engineering and Engineering Technology)

* Evaluate, construct, and utilize design models to identify and solve problems related to project management.
* Implement engineering design methodology to predict both primary and alternative solutions.
* Evaluate and solve engineering problems related to course content.
* Articulate and justify both technical considerations and solutions through oral, written and graphical communication methods in engineering problems.
* Effectively solve problems in teams.
* Demonstrate an understanding of professional and ethical responsibility in the field of engineering

**Telecommunications Technician:**

Sheridan (Internet Communications Technology)

* Distinguish, identify and relate between the principal layers of a complex communications system.
* Know all important telecommunications principles and equipment, protocol suites, architectures, regulatory bodies and common carrier services as well as issues of cross-protocol communications.
* Have the skills required to install, administer and manage a Local Area Network (LAN) and be able to network that LAN to other network segments over wide area links.
* Know the theory behind and the basic use of network testing, monitoring and management instruments and systems.
* Apply basic computing principles and programming skills to install software, configure devices, troubleshoot and maintain a data network.
* Be able to assess the communications needs of a client, perform a broad brush analysis of the traffic conditions associated with these needs and then determine the optimal connectivity for the conditions.
* Know the range of data communications services associated with the dominant public carrier services in Canada today and be able to estimate point to point costs using tariff schedules.
* Apply basic electronic and digital principles and instrumentation in the installation, troubleshooting and maintenance of communications hardware.
* Apply the principles of mathematics, science and engineering and utilize information from handbooks, journals, regulations and specifications to resolve telecommunications problems.
* Schedule or supervise telecommunications projects and follow up with written reports in accordance with established formats and procedures.
* Know and be able to apply basic management principles such as project and time management, break-even analysis, planning and control.
* Communicate effectively with associates in written, oral or schematic form.

**Welding Technology – Basic/Advanced:**

Santa Fe Community College

* Provide leadership in creating and maintaining a safe working environment.
* Select tools, equipment and materials based on characteristics and properties for necessary welding procedures.
* Display manipulative skills with the various welding processes (oxy-acetylene, shielded metal arc, gas metal arc, flux cored arc, gas tungsten, etc.) to assure adequate weld integrity and appearance.
* Interpret blueprint welding symbols to fabricate components.
* Apply basic math skills and geometry to correctly identify and solve welding problems