



Mancos High School Explore Pathways Course Catalog

2022-2023



*“A mind that is stretched by new experiences
can never go back to its old dimensions.”*

– Oliver Wendell Holms, Jr.



Explore Pathways



Explore Exciting Career Paths



Graduate with Employable Skills



Head to College with Transferable Credits

Meet the Administrative Staff



Todd Cordrey
Superintendent
Mancos
School
District



**Tiffany
Aspromonte**
Academic
Advising &
Registrar
Mancos High
School



**Dr. Sam
Dosumu**
Executive Dean
Pueblo
Community
College -
Southwest
Campus

SEE WHAT MANCOS HIGH SCHOOL IS OFFERING

A pathway is an intentional educational structure within a school system that includes a course of study, authentic learning experiences, and caring adults to provide guidance and mentorship to prepare students for college and their careers.

Beginning in the Fall of 2022, Mancos High School will offer our *Explore Pathways* – six opportunities for students to explore a career path that can lead to direct employable skills, college credits to get you on the way to an associate's or a bachelor's degree, and tons of great experience through coursework as well as internships or work-study opportunities within the surrounding community.

College Bound: Our *Explore Pathways* align with the Colorado Career and Technical Education program, meaning that students can easily take their education further within the Colorado Community College network. For students interested in a four-year college education, see the number of courses within the pathways marked **GT** – this means that courses are guaranteed to transfer to Colorado colleges and universities and other four-year universities on a case-by-case basis.

Industry Partners: The Mancos School District is working to establish and sustain partnerships with various companies and organizations within the four corners region. Our industry partners will support the *Explore Pathways* by advising on our curriculum and engaging with students through internships and work-study opportunities. Partners may even be future employers!

Get Ready to Explore!

Business Pathway.....	pages 3-4
Welding Pathway.....	pages 5-6
Culinary Arts Pathway.....	pages 7-8
Drone Aviation Pathway.....	pages 9-10
Healthcare Pathway.....	pages 11-12
Education Pathway.....	pages 13-14

Business Pathway

Outcomes for Students who Explore this Pathway

**Experience in the field of
entrepreneurship and business
management**

**College credits toward a number of
business administration degrees,
including an Associates in Business or
Small Business Ownership (supports
welding pathway), or a Bachelors in
Business Management**

**Skills to help you start a business or
gain general employment on a
management track in many types of
businesses**



Why Explore Business?

Business is ubiquitous to American society, meaning that nearly every industry in our country has a business division.

Skills in business include planning, organizing, and coordinating. There's a lot of responsibility riding on the shoulders of business operations workers - but a lot of flexibility too, as you can move from industry to industry.

Colorado is ranked 4th in the U.S. for start-up activity. Working in business operations for a start-up means taking on many roles, being creative and nimble.

A career in business can take many directions including management and operations, finance, human resources, marketing, public relations and fundraising, training and development, and more.

Pay for workers in operations management varies greatly across industries and with experience and credentials. A new college graduate might expect to start at \$52,000 as a management analyst.

Business Courses Offered

Introduction to Business: BUS 1015 (3cr): Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

Introduction to Entrepreneurship: ENP 1005 (3cr): Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world, and their impact on our national and global economy.

Business Communication & Report Writing: BUS 2017 (3cr): Emphasizes effective business writing and cover letters, memoranda, reports, application letters and resumes. Includes the fundamentals of business communication and an introduction to international communication.

Other Supporting Courses

Introduction to Computer Information Systems: CIS 1015

Introduction to PC Applications: CIS 1018

English Composition I: ENG 1021

English Composition II: ENG 1022

Technical Mathematics: MAT 1150

College Algebra: MAT 1340 (GT)

College Trigonometry: MAT 1420 (GT)

American Government: POS 1011 (GT)

General Psychology I: PSY 1001 (GT)

Welding Pathway

Outcomes for Students who Explore this Pathway

**Experience in the construction and
manufacturing trades**

**Introductory Structural and Intermediate
Structural Welding Certification**

**Preparation for performance-based test to
earn an American Welding Society
Industry Certification**

**Credits toward advanced welding degrees
including Industrial Pipe Welding
Certification**

**Employable skills to help you enter into a
welding career right away**



Why Explore Welding?

Welding is a challenging and high demand trade. Welding is needed in many industries, including: automotive, architectural, structural metals manufacturing, mining, agricultural manufacturing, aerospace and more.

Welding offers more choices than any other construction or manufacturing trade. Most industries throughout the world require welders.

The average welder earns from \$19.20 to \$28.90 per hour. Underwater welders and those working in high-end capacities can expect to make a higher salary, sometimes exceptional and in the range of \$100+ per hour.

Welding Courses Offered

Safety for Welders: WEL 1000 (1cr): Covers the hazards of welding on health and safety.

Allied Cutting Processes: WEL 1001 (4cr): Covers setting up equipment and performing cutting and gouging operations utilizing the oxyacetylene, air carbon arc, exothermic, and plasma arc cutting processes. This course will also provide an introduction to blueprint reading.

Basic Shielded Metal Arc I: WEL 1003 (4cr): Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX10 electrodes.

Basic Shielded Metal Arc II: WEL 1004 (4cr): Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX18 electrodes.

Blueprint Reading for Welders and Fitters: WEL 1006 (4cr): Covers interpretation and creation of weld symbols and blueprints used in metal fabrication. Prerequisite(s): WEL 1001 or WEL 1002

Gas Tungsten Arc Welding I: WEL 1024 (4cr): Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

Introduction to Gas Metal Arc Welding: WEL 1025 (4cr): Covers welding in all positions and on various joint configurations using the GMAW (mig) welding process on carbon steel, stainless steel and aluminum. Students should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints and safety in the welding industry. Prerequisite(s): WEL 1024

Other Supporting Courses

Introduction to Business: BUS 1015

Introduction to Entrepreneurship: ENP 1005

Business Communication & Report Writing: BUS 2017

Technical Mathematics: MAT 1150

College Algebra: MAT 1340 (GT)

College Trigonometry: MAT 1420 (GT)

Culinary Arts Pathway

Outcomes for Students who Explore this Pathway

**Experience in the field of culinary arts,
restaurant management, and hospitality**

**Prostart National Certificate of
Achievement and Food Safety
Certification**

**Eligibility for scholarship opportunities
and course credits at some the country's
leading hospitality and culinary arts
colleges**

**Employable skills to help you enter into
the restaurant and hospitality industry
right away**



Why Explore Culinary Arts?

A career in the culinary arts offers a variety of options, whether you are interested in becoming a chef, an owner or operator of a restaurant, or a part of the wider hospitality industry.

Food has the power to generate feelings of love and nostalgia, to bring us together, to heal, satisfy, and bring joy. It is deeply rooted in history and culture, and it is an intricate part of our everyday lives.

You can study cooking, baking, hospitality management, food safety, or nutrition, and hone the creative and technical skills needed to prepare and serve food professionally.

Salaries for culinary professionals range from \$46k to \$94k, and jobs can be found all over the world.

Culinary Courses Offered

ProStart Culinary 1: In this class, you will take a firsthand look at the fast-paced and exciting culinary industry. You will master culinary techniques such as stocks, sauces and soups, fruits and vegetables, and potatoes and grains. A heavy emphasis is placed on safety and sanitation, including preparing and serving safe food and preventing accidents and injuries. You will learn about successful customer relations, communication skills, management, and food service costs. You will also learn about the history of the foodservice industry and techniques used to build a food service career.

ProStart Culinary 2: ProStart II is a continuation of ProStart I. The industry emphasis for ProStart II is nutrition, operational costs, and marketing. The culinary focus is breakfast, sandwiches, salads, meats, desserts, and global cuisine.

Other Supporting Courses

Introduction to Business: BUS 1015

Introduction to Entrepreneurship: ENP 1005

Business Communication & Report Writing: BUS 2017

English Composition I: ENG 1021

English Composition II: ENG 1022

Technical Mathematics: MAT 1150

College Algebra: MAT 1340 (GT)

College Trigonometry: MAT 1420 (GT)

American Government: POS 1011 (GT)

General Psychology I: PSY 1001 (GT)

Drone Aviation Pathway



Outcomes for Students who Explore this Pathway

**Preparation for the Federal Aviation
Administration License exam**

**College credits toward a number of
degrees in aviation flight, mechanics, and
systems control**

**Employable skills to help you enter into a
drone piloting career right away**



Why Explore Drone Aviation?

Drones have applications in many industries including real estate, construction, mining, filmmaking, journalism, agriculture, telecommunication, and more. Becoming a drone pilot, positions you to explore a wide variety of work that is in high demand.

The national average salary for drone pilots is \$60k and the industry is growing steadily in terms of both diversity and volume of jobs.

Drone Courses Offered

Unmanned Aircraft Systems Flight and Control: UAS 1040 (3cr): Introduces principles of flight and control as applied to Unmanned Aeronautical Vehicles (UAVs). This course includes principles of flight, mission planning, systems control, and safety of personnel, safety in the operational environment, and compliance with regulations and procedures. Human factors analysis focusing on crew resource management is also introduced.

Unmanned Aircraft Systems and Safety: Foundation: UAS 1050 (3cr): Provides an understanding of the capabilities and limitations of Unmanned Aircraft Systems (UAS) technologies including the hardware and software configurations and gain a holistic view of concerns facing UAS integration into the National Airspace System.

Other Supporting Courses

Introduction to Business: BUS 1015

Introduction to Entrepreneurship: ENP 1005

Business Communication & Report Writing: BUS 2017

Introduction to Computer Information Systems: CIS 1015

Introduction to PC Applications: CIS 1018

Technical Mathematics: MAT 1150

College Algebra: MAT 1340 (GT)

College Trigonometry: MAT 1420 (GT)

Healthcare Pathway

Outcomes for Students who Explore this Pathway

Experience in the field of healthcare that can lead toward many administrative or clinical careers

Medical Front Office and Phlebotomy Certifications that leads to immediate employability

American Health Association Healthcare Professional Basic Life Support Certification and qualification to sit for the EMR level National Certification, which prepares you to apply for Colorado State EMR Certification

College credits toward a number of different degrees in the healthcare industry including, Medical Billing and Coding, Medical Assistant Certification, an associate degree in Emergency Medical Services or Paramedicine, and an Advanced Paramedic Practitioner Bachelor of Applied Science



Why Explore Healthcare?

Healthcare is one of the fastest growing sectors of the Colorado economy - and it attracts all kinds of workers. They can work long hours in sometimes stressful conditions, but many find the rewards are worth it.

An aging population means more healthcare facilities are being built. You'll also find workers in research facilities, schools, labs, and government agencies as more jobs appear outside hospital settings.

When you think of healthcare, you probably think of doctors and nurses - but there are many other well-paying occupations with great opportunities such as licensed practical nurse, medical laboratory technician, ultrasound technician, medical coder, physician assistant or respiratory therapist.

In Colorado, experienced paramedics and emergency medical technicians can make \$71,270 annually; entry-level \$20,480. An experienced medical and health services manager in Colorado averages \$175,590; an entry-level home health aide, \$18,660.

Healthcare Courses Offered

Emergency Medical Responder: EMR 1015 (3cr): Provides the student with core knowledge and skills to function in the capacity of a first responder arriving at the scene of an emergency, providing supportive care until advanced EMS help arrives.

Phlebotomy: HPR 1020 (4cr): Covers the duties associated with the practice of venipuncture, capillary puncture, and special collection procedures. This course provides experience with quality control, infection control, safety procedures, as well as laboratory computer systems. Successful completion of this course, with an adequate number of blood draws, will constitute eligibility for application for a National Phlebotomy Registry Examination.

Law & Ethics for Health Professions: HPR 1008 (2cr): Introduces students to the study and application of medico-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions.

Medical Terminology: HPR 1039 (2cr): Discusses the structure of medical terms with emphasis on using and combining prefixes, roots, and suffixes. This class includes terms related to major body systems, oncology, and psychiatry, as well as clinical laboratory and diagnostic procedures and imaging, and provides accepted pronunciation and spelling of terms used in the healthcare setting.

Other Supporting Courses

English Composition I: ENG 1021

English Composition II: ENG 1022

Technical Mathematics: MAT 1150

College Algebra: MAT 1340 (GT)

College Trigonometry: MAT 1420 (GT)

American Government: POS 1011 (GT)

General Psychology I: PSY 1001 (GT)

Education Pathway*

Outcomes for Students who Explore this Pathway

**Experience in the field of teaching and
education administration**

**College credits toward a bachelor's
degree in K-12 education**

**Skills to secure employment as a
Paraprofessional and/or paid internship
opportunities with the Mancos School
District**

*** This pathway will not be offered in the Fall of 2022, but
will be available in the future based on interest.**



Why Explore Education?

Education is one of the most important, rewarding, and challenging careers you can have. You can play a formative role in the lives of children and help young adults master the skills they need to live their best life.

Education jobs exist throughout the world - in cities and towns, in homes and at schools, and in post-secondary institutions.

There are around 900,000 K-12 students in Colorado. Teachers are needed more than ever, and there are a wide variety of jobs in education, including Administrator, Student Affairs, Librarian, Counselor, Coaching, Tutoring, and more.

Entry-level jobs as a Paraprofessional average \$29,000 per year and you can advance to a school or district leadership role that averages \$91,000.

Education Courses Offered

Global Perspectives in Education: ED 222 (3cr): Students in this course will study the social, philosophical, cultural, and intellectual foundations of “schooling” and “education” as they have evolved over time. Students will engage in research, discussions, and classroom activities that are directly related to American and international education. Students will write and critically think about topics related to education practices in this culturally diverse world.

Multicultural Children’s Literature: ED 200 (3cr): A study of all types of literature for children, development of criteria for evaluating books, and methods of creating (in children) a love of good books through a sound literature program for early childhood and elementary schools.

Other Supporting Courses

English Composition I: ENG 1021

English Composition II: ENG 1022

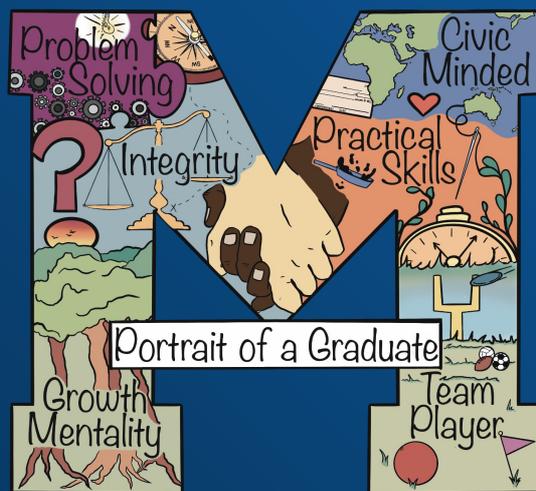
Technical Mathematics: MAT 1150

College Algebra: MAT 1340 (GT)

College Trigonometry: MAT 1420 (GT)

American Government: POS 1011 (GT)

General Psychology I: PSY 1001 (GT)



Mancos School District
395 Grand Avenue
Mancos, CO 81328
(970) 533-7748