



Mancos High School Explore Pathways Program Guide



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

– Oliver Wendell Holmes, Jr.



Explore Pathways



Explore Exciting Career Paths



Graduate with Employable Skills



Head to College with Transferable Credits

Meet the Administrative Staff



**Ed
Whritner**

Secondary
Principal
Mancos RE-6
Schools



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



Perry Pepper
Director of
Academic
Services
Pueblo
Community
College

We are a Community of Trailblazers...



Mancos High School Explore Pathways offers six unique opportunities for students to explore a career path.

Mancos High School is taking an innovative leap. Starting in the Fall of 2022, we revamped our schedule to offer traditional core classes in the mornings, reserving afternoons for courses aligned with our six Explore Pathways. All courses are taught on the Mancos School District Campus during the normal school day.

Pathways 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.

Our Goal is for 100% of students to graduate ready to thrive in both college and career.

Research shows that pathways are likely to increase standardized test scores and GPAs, increase graduation rates, and improve postsecondary and workforce readiness. The Explore Pathways program is designed to not only provide hands on career training, but equip our students with the creative and collaborative skill sets that directly support our strategic plan and Portrait of a Graduate competencies.....





Growth Mentality • Problem Solver • Integrity
Civic Minded • Practical Skills • Team Player

Get Ready to Explore!



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Business Pathway

-  Gain experience in the field of entrepreneurship and management
-  Graduate with the skills to start a small business or gain employment on a management track
-  Earn college credits toward Associates Degrees in business or small business ownership, or a Bachelors in business management
-  Become a member of the DECA student organization for emerging leaders and entrepreneurs

DECA Members gain 21st century skills.

97% of DECA members say they learned how to communicate thoughts and ideas, how to organize a presentation, and more about what businesses expect from employees.

DECA members are prepared to become leaders.

92% of DECA members say their experience empowered them to be an effective leader and connected school to the real world. DECA also helps students see the benefit of community service.

DECA members are motivated for the future.

DECA members say their experience prepared them academically for college and career, influenced their college and career plans, and their interest in entrepreneurship.

Certifications Offered

Entrepreneurship Certificate

This certificate prepares you to open your own business by introducing you to the fundamentals in sales, marketing, management, and accounting.

Hootsuite Social Marketing Certificate

This industry-recognized certification helps you develop and demonstrate your expertise with the essential elements of social media marketing.





Todd Cordrey

Business
Pathway
Instructor,
Mancos CTE
Director &
Superintendent

In addition to two decades as an entrepreneur, I have gained valuable experience from being a public educator. My educational experience includes earning licensure as an Elementary Educator, Secondary Teacher in Business and Marketing, Career and Tech Educator in Marketing, and School and District Administrator. In addition, I have 19 years of K-12 educational leadership experience ranging from being a sixth-grade teacher, college faculty in the Principal Licensure Program at the University of Colorado and Fort Lewis College, Board President of a large urban school district, Executive Director of a title one charter school, and most enjoyably as a Superintendent of two rural public school districts in Colorado.

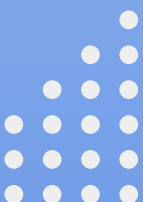
Why Explore Business?

- Business is ubiquitous to American society, meaning that nearly every industry in our country has a business division.
- Skills in business include planning, organizing, presenting, persuasion, adaptability, creativity, teamwork, and collaboration.
- 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 agile.
- 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 Pathway College Courses





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.

Marketing for the Entrepreneur: ENP 2005 (3cr): Covers marketing strategies to launch and sustain an entrepreneurial venture. This course will include topics on marketing entrepreneurial ventures utilizing innovative and financially responsible marketing strategies. This course will help students to develop an understanding of entrepreneurial marketing goals and objectives. The course covers marketing principles and electronic marketing.



This pathway is created through partnership with Uncharted Learning. The curriculum allows students to develop products during the school year leading to a pitch to investors at the end of the year. PCC supplements this program with additional college credit courses, and the Mancos Valley Chamber of Commerce provides mentors and resources for students as they develop their products.

Welding Pathway

-  Gain experience in the construction and manufacturing trades
-  Graduate with the skills to help you enter into a career in welding right away
-  Earn College Credits toward advanced welding degrees and prepare for the American Welding Society Industry exam
-  Become a member of the SkillsUSA student organization for the next generation of world-class workers and leaders

SkillsUSA members are the skilled workforce of the future.

We improve the quality of our nation's workforce through programs that include personal, workplace, and technical skills grounded in academics.

SkillsUSA enhances lives by teaching citizenship & leadership.

With more than 4,000 school chapters in all 50 states and 4 U.S. territories, we serve more than 370,000 students and instructors annually.

SkillsUSA students can attend professional development conferences.

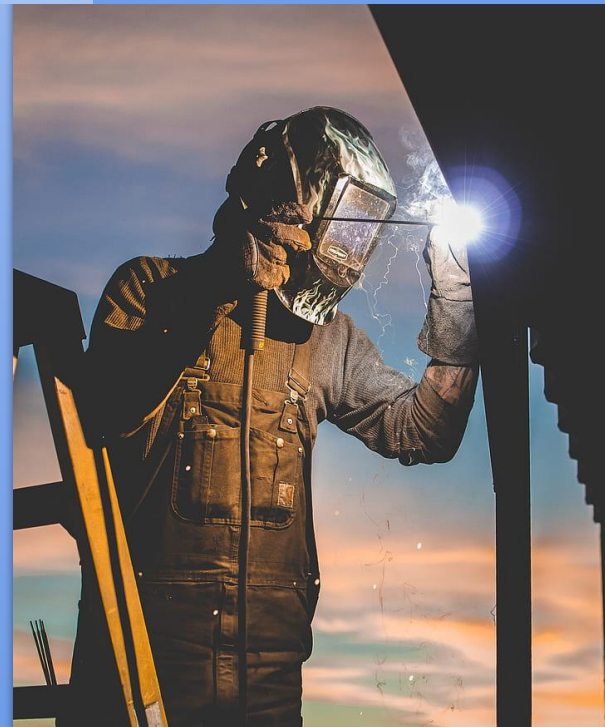
We offer regional and state conferences at which students demonstrate skills in occupationally-related trade, industrial, technical and leadership competitive events.

Certifications Offered

Introductory & Intermediate Structural Certificates

Structural Welding Certificate

NCCER Core Introduction to Basic Construction Skills Certificate





**Eldon
Vannest**

Welding
Pathway
Instructor

I started out my career welding and fabricating on tractors and equipment in western Colorado. I then spent almost a decade doing industrial and structural welding underground in the coal mining industry. Combined, I have over 16 years of industrial welding experience. In my free time, I enjoy fabricating trailers and hitches, forging knives, and repairing race cars. After several years of coaching football in Mancos, I'm excited to share my technical knowledge with our students.

Why Explore Welding?

- Welding is a challenging and highly demanding 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.
- Students may also consider taking the business pathway to support a career in welding.

Welding Pathway College Courses

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



Culinary Pathway

-  Gain experience in the fields of culinary arts, restaurant management, and hospitality
-  Graduate with the skills to help you enter into a career in the restaurant industry right away
-  Earn eligibility for scholarships and course credits at leading culinary and hospitality colleges
-  Become a member of the Family, Career & Community Leaders of America (FCCLA) student organization

Family, Career and Community Leaders of America (FCCLA) is the only national career and technical student organization with the family as its central focus.

Since 1945, FCCLA members have been making a difference in their families, careers, and communities by addressing important personal, work, and societal issues through family and consumer sciences education. Today, over 2400 members in 140 chapters are active in Colorado through the opportunity to expand their leadership potential and develop skills for life.

Certifications Offered

**National Restaurant Association
ProStart Certification**

ServSafe Food Handlers Certification

iCEV Meat Science Certification





**Janet
Fogel**

Culinary
Pathway
Instructor

I have worked in the food industry collectively for 17 years, 11 years in the Mancos School District as the Nutrition Services Director. I have a Bachelor's degree in Health Sciences with a focus on Nutrition. Prior to my work here in the Mancos School District, I worked for and served on boards for non profits that focused on local food procurement. I volunteered as a nutrition educator for Cooking Matters of Colorado for 4 years and have been a Certified Family and Consumer Sciences CTE teacher for 3 years. I am very excited to see this program grow here in Mancos and hope that the skill set I teach will take students to the next level in the Culinary Arts industry.

Why Explore Culinary?

- 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.
- Students may also consider taking the business pathway to support a career in culinary arts.

Culinary Pathway College Courses

ProStart Culinary I: 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 II: 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.

This pathway is designed for students to work both individually and in teams. Students will develop employable skills to enter the food service or hospitality industry, as well as learn practical skills that can be used anywhere. Pairing this pathway with the business pathway is also a great way to take it a step further.

Drone Aviation Pathway



- ✦ Gain experience in the high demand field of drone aviation as well as the numerous industries that drones now support
- ✦ Graduate with the skills to help you enter into a drone piloting career right away
- ✦ Earn college credits toward a number of degrees in aviation flight, mechanics, and systems control

Why Explore Drones?

Becoming a drone pilot, positions you to explore a wide variety of work that is in high demand.

Drones have applications in many industries including real estate, construction, mining, filmmaking, journalism, agriculture, telecommunication, and more.

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

This pathway supports preparation for the Federal Aviation Administration License Exam.



Drone Pathway Instructors



James Martin

I went back to college in 2010 at the age of 45 and finished my Masters in 2021. I have degrees in Special Education,(A.A), Interdisciplinary Studies with a focus on Education and Instruction, a minor in Deaf Studies (B.A), and finally my Master's in ASL teaching.



Jeremy Patton

I learned to fly gliders in high school and college, later joining the Navy and was primarily an air traffic controller. After working in firefighting/EMS,. I finished my single-engine pilot license, aviation management degree, and am now working on my instrument pilot license. I hold a Part 107 commercial UAS operator license, and plan to have my advanced ground instructor completed this winter.



Dr. Evert Brown

I am an FAA DronePro, Safety Team Representative, and certified instructor for The Unmanned Safety Institute. I have over 30 years of experience in education mostly teaching Biology and Wildlife Management. Aa a licensed drone pilot, I teach unmanned aviation for PCC. My military career spanned two branches, the US Marine Corps and the US Army. My last duty assignment was as a Special Forces Group intelligence staff officer.

Drone Pathway College Courses

Unmanned Aircraft Systems Flight Training: UAS 104 (3cr): Introduces and develops flight control and piloting techniques for common UAS platforms.

Unmanned Aircraft Systems Ground School: UAS 105 (2cr): Demonstrates readiness for the UAS Operator written test. Regulations pertaining to UAS operations will be introduced, including airspace, weather, and flight parameter limitations.

Unmanned Aircraft Systems Commercial Applications: UAS 151 (3cr): Explains the wide variety of commercial applications of Unmanned Aircraft Systems and operating procedures to ensure a safe outcome for executing such applications. Students will model commercial scenarios to learn about Geographic Information Systems, aerial imaging and survey techniques, multispectral and LIDAR systems,agriculture, and other UAS mission types.

Unmanned Aircraft Systems and Safety: UAS 152 (3cr): Provides an understanding of limits and skills employed by remote pilots in identifying and mitigating errors. Human error and skills used to detect and stop errors during the day-to-day execution of remote pilot tasks are addressed. This course surveys the concepts of decision-making bias, stress, and methods for safely identifying and mitigating risk while making decisions.

Physical Geography-Weather, Climate and Ecosystems: Geo 112 (4cr): Introduces the principles of meteorology, climatology, ecology, and regional climate classification. The course investigates the geographic factors which influence climate and ecosystems such as topography, elevation, winds, ocean currents, and latitude. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

In addition to flight skills, students will develop skills such as planning, organizing, presenting, adaptability, creativity, teamwork, and collaboration as they chart the new industry of drone aviation.

Healthcare Pathway



- ✦ Gain experience in the fields of administrative and clinical healthcare
- ✦ Graduate with the skills to start working in a medical office or in EMS right away
- ✦ Earn college credits toward degrees including Medical Billing & Coding, Medical Assistant, and Paramedicine
- ✦ Become a member of the HOSA student organization for future health professionals

HOSA helps students develop leadership and technical skills through a program of motivation, awareness, and recognition.

Colorado HOSA relies on the support from our local community including alumni, judges, and sponsors.

HOSA provides competitive events in which students may participate.

Certifications Offered

Certified EKG Technician
Certified Phlebotomy Technician
Certified Patient Care Technician/Assistant
Certified Emergency Medical Responder
NCCA Personal Trainer Certification
Certified Nurse Assistant





Nancy Young

Healthcare
Pathway
Instructor

My career in nursing started as an intensive care/trauma level nurse at a Magnet trauma one level hospital. Over the years, I have worked in many fields of nursing across the USA, including Hospice and homecare, working with the severely mentally ill, providing care to individuals who qualify under the Radiation Compensation Act, and working for Mayo Health System in the float pool, providing care in all clinic areas. One of the most challenging areas of nursing I worked in was Peritoneal dialysis. For the past three years, I worked as a travel nurse with a school district. My career in nursing has provided me with such diversity in work and lifestyle, and I am delighted to now be working with Mancos High School students as an Explore Pathways instructor.

Why Explore Health?

- Healthcare is one of the fastest growing sectors of the Colorado economy. More healthcare facilities are being built and work is growing in research facilities, schools, labs, and government agencies as more jobs appear outside hospital settings.
- Beyond jobs as doctors and nurses, 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 Pathway College Courses

Nurse Aide Health Care Skills: NUA 1001 (4cr): Prepares students to perform fundamental skills of a nurse aide. Basic nursing skills, communication skills, restorative services, personal care skills, safety, and emergency care issues are covered. Includes principles of asepsis, OSHA, HIPAA, ethical behaviors, cultural sensitivity, mental health, and patient rights.

Nurse Aide Clinical Experience: NUA 1070 (1cr): Applies knowledge and skills gained in NUA 1001 to patient care.

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.

- **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.

Education Pathway



- ✦ Gain experience in fields of teaching and education administration
- ✦ Graduate with the skills to help you enter the workforce as a paraprofessional right way
- ✦ Get paid internship opportunities with the Mancos School District
- ✦ Earn college credits toward a Bachelor's degree in K-12 education

Certifications Offered

Teacher Cadet Certification

Mancos High School works with the Teacher Cadet Program in Colorado to offer certifications in the field of education. The Teacher Cadet Program uses an innovative approach designed to attract talented young people to the teaching profession through a challenging introduction to teaching.

The Program seeks to provide high school students with insight into the nature of teaching, the problems of schooling, and the critical issues affecting the quality of education in America's schools.





Dr. Mary Marable

Education
Pathway
Instructor

I earned my Bachelor's Degree in PE/Health with emphasis in teaching Math and Science in 1987. In 1991, I went on to earn a Masters from the University of St. Thomas, with emphasis in Educational Leadership. After 20+ years of teaching, I pursued an Educational Specialist Degree and Doctorate in Educational Leadership from Union University, graduating in 2011. With 35 years of educational experience at the secondary level, as a math teacher, department chair, athletic coach, instructional coach, and school administrator, I am looking forward to the opportunities of offering educational input for students to become educators through The Explore Pathways program. I believe educational roles can be "life changing" for students and the role of a teacher is valuable in offering a great foundation for students as they work to find their place in this world. Teaching is a giving profession to help enhance the lives of others.

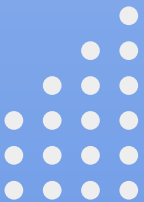
Why Explore Education?

- 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 Pathway College Courses

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.



This pathway is created in partnership with Fort Lewis College to develop a sustainable teacher and paraprofessional pipeline for our region. This pathway includes built-in opportunities for student internships, work study, and future employment. We aim to support our next generation of teachers and help the Mancos School District build and retain the high quality instruction of classically trained and certified teachers.

Map your pathway from here

Mancos High School offers many more high level courses that support each pathway. You choose the path that is right for you.



Supporting College 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)

Are You College Bound?

Mancos High School 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.

Guaranteed Transfer Courses (GT)

For students interested in a four-year college education, see the number of courses 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.

Students can talk with advisors to plan out a college and career aligned schedule as they transition from middle school to high school.

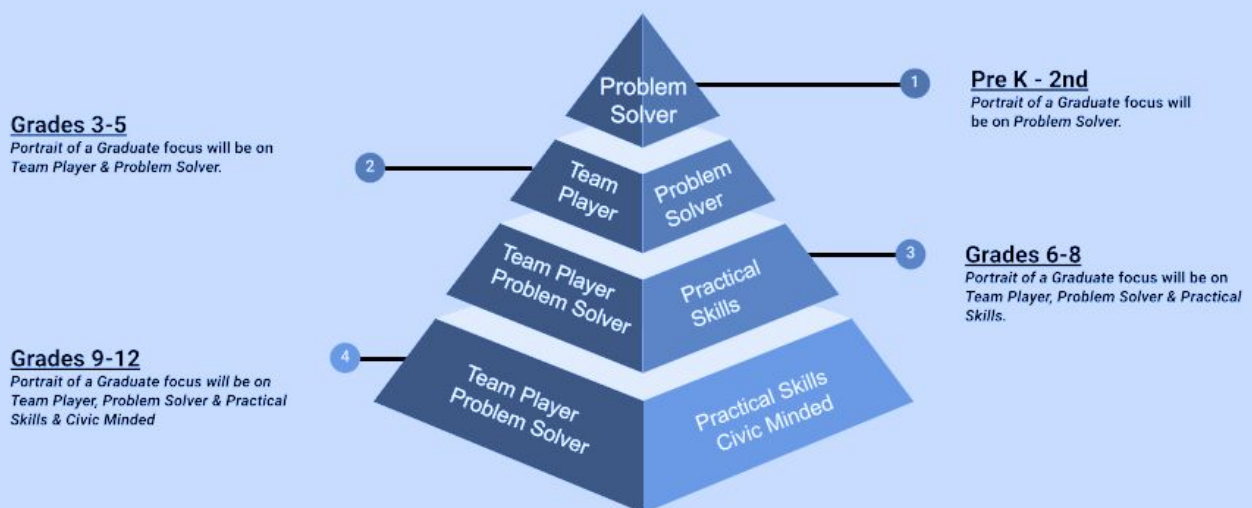
MIDDLE SCHOOL			HIGH SCHOOL	
1st Period <i>60mins</i>	7:50 – 8:50am		1st Period <i>50mins</i>	7:50 – 8:40am
2nd Period <i>60mins</i>	8:55-9:55am		2nd Period <i>50mins</i>	8:45 – 9:35am
3rd Period <i>60mins</i>	10:00-11:00am		3rd Period <i>50mins</i>	9:40-10:30am
Advisory <i>20mins</i>	11:05-11:25am		4th Period <i>50mins</i>	10:35-11:25am
4th Period <i>50mins-Elective</i>	11:30 – 12:20pm		5th Period <i>50mins</i>	11:30-12:20pm
Lunch	12:20-1:05pm		Lunch	12:20 – 12:50pm
5th Period <i>60mins</i>	1:10-2:10pm		6th Period <i>Explore Pathways: 95mins</i>	12:55 – 2:30pm
6th Period <i>60mins-Elective</i>	2:15-3:15pm		7th Period <i>Explore Pathways: 95mins</i>	2:35-4:10pm
7th Period (X-Block) <i>50mins</i>	3:20 – 4:10pm			

The Pathways Program is a piece of the the Mancos School District's bigger picture.

Our story starts with the Mission and Vision as the North Star of the school district. In April 2021, with the support of staff and parents, the Board of Education adopted the Strategic Plan, which established Portrait of Graduate competencies for our students.

These learner outcomes are developed through project-based learning at the top of the Bloom's Taxonomy scale, CREATE. Students engage in hands-on, student-centric, career-connected learning during their pathways courses through an innovative bell schedule.

Portrait of a Graduate - Growth Over Time



Integrity & Growth Mentality = Embedded Within All Grade Levels

Our Mission

In partnership with our community, we foster safe, positive, and rigorous learning experiences.

Our Vision

Every student graduates with a broad academic foundation enabling them to demonstrate the skills of critical thinking, problem solving, teamwork, and independent judgement. All students understand democratic principles, recognize their civic responsibilities, and participate ambitiously in a dynamic age of technological change and global context.

The Mancos Explore Pathways Program is supported by the Mancos Board of Education.

Thank You to Our Industry Partners

Mancos School District is working to establish and sustain partnerships with various companies and organizations within the four corners region who support our pathways by advising on our curriculum and engaging with students through internships and work-study opportunities. Partners may even be future employers!





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

October, 2022