

Career and Technical Education 2024-2025

FutureForward Career and Technical Education (CTE) programming gives all students a competitive advantage as they enter college, career or the military.

FutureForward Students:

- Explore opportunities that prepare them for high-demand careers and give them an edge entering college.
- Engage in authentic, hands-on learning.
- Equip themselves with relevant, rigorous, and practical skills.

LOCATIONS:

FutureForward at Bollman

9451 Washington St. Thornton, CO 80229 (720) 972-5820 https://futureforward.adams12.org/bollman Principal: Janet Renden



FutureForward at Washington Square 12521 Washington St. Thornton, CO 80241 (720) 972-2900 https://futureforward.adams12.org/washingtonsquare Principal: Marvin Lewis

futureforward.adams12.org



*A*dams Five Star Schools



FutureForward at Bollman FutureForward at Washington Square

Adams 12 Five Star Schools offers Career and Technical Education (CTE) courses at its Bollman and Washington Square campuses to all high school students enrolled in the district. The District is committed to non-discrimination in relation to race, color, sex (including pregnancy, childbirth, and related medical conditions), age, religion, creed, national origin (including ethnicity), ancestry, genetic information (including family medical history), marital status, sexual orientation, transgender identity, gender identity, gender expression, or disability ("Protected Classes"), in its educational programs, activities, operations and employment decisions. Harassment is a form of discrimination. Anyone engaging in discrimination shall be subject to discipline in accordance with District policies.

Any student or staff member who believes they have been discriminated against, or who witnesses discrimination (including bullying or harassment) will promptly make a report to an administrator or supervisor, or the Title IX/Non Discrimination Coordinator. The District's interim Title IX/Non-Discrimination Coordinator is:

Megan Brooks Educational Support Center (ESC) 1500 E. 128th Avenue Thornton, CO 80241 720-972-4179 megan.brooks@adams12.org

FutureForward at Bollman is located at 9451 Washington Street and FutureForward at Washington Square is located at 12521 Washington Street. Bus transportation is provided for Horizon, Legacy, Mountain Range, Northglenn, Thornton, and Vantage Point students from their home high schools to each of these campuses. It will be necessary for students enrolled in programs at FutureForward campuses to have travel time built into their schedules to allow for transportation between schools.

AGRICULTURE	Computer Integrated Manufacturing –CIM
Veterinary Assistant	HEALTH SCIENCE
ARTS & DESIGN / MEDIA ARTS	Introduction to Medical Careers
Graphic Design	Medical Sciences
Video Production	Advanced Medical Sciences - CNA
CRIMINAL JUSTICE & PUBLIC SAFETY	Sports Medicine
Crime Scene Investigation	HOSPITALITY, HUMAN SERVICES & EDUCATION
Emergency Medical Technician – EMT	ProStart (Culinary Arts) - (Offered at ESC)
Firefighting	Baking & Pastry Applications (Culinary Arts) - (Offered at ESC)
Law Enforcement	Behavioral and Mental Health
ENGINEERING, COMPUTER & DIGITAL TECHNOLOGIES	P-TEACH Courses
AP Computer Science A	SKILLED TRADES & TECHNICAL SCIENCES

Cybersecurity	Automotive Collision Repair and Refinishing
Networking	Automotive Technology
Sr Computer Science Projects	Diesel Automotive Technology
Principles of Engineering	Construction, Mechanical, Electrical, and Plumbing
Aerospace Engineering	Welding Technology

All Career and Technical Education courses meet the Fine/Practical Arts graduation requirement. These courses are offered to all Five Star students; however, it may be necessary for students to purchase supplies that are beyond the basic program requirements, and all programs have a course fee. Safety is a priority at both campuses and special clothing may be required for some program areas.

NOTE TO PARENTS:

- Any alcohol, drug, or other substance use violation could be grounds for denial of admission to a program or removal from a program once admitted.
- Excellent attendance is important in all FutureForward at Bollman and Washington Square programs. Five or more unexcused absences may result in a student being placed on an attendance contract. Failure to comply with an attendance contract may result in disenrollment from a program.
- Students enrolled in the Advanced Medical Sciences/CNA programs will be required to have up-to-date immunizations, flu and COVID-19 Vaccinations, a TB test, and a current physical.
- Students enrolled in Advanced Medical Sciences/CNA or Education (P-TEACH courses) must provide their own transportation to off-site locations for projects, clinical rotations, observations, or teaching experiences.
- Transportation may not be provided for some programs. Please speak with a FutureForward at Bollman or Washington Square campus staff member for more details.
- It is required that all students who register for a FutureForward at Bollman and Washington Square program attend a pre-acceptance meeting in April.
- Juniors are given priority acceptance into some programs. Sophomores and seniors will be accepted on a "space available" basis.
- College credits are available in many FutureForward at Bollman and Washington Square programs. Contact the registrars or counselors for more information.

EXCEPTION TO THE THREE (3) CORE CLASS REQUIREMENT: According to Superintendent Policy 6340 Section 1.4.2, "Exceptions to the three (3) core class (1-1/2 credits) requirement may be made for students at FutureForward at Bollman and Washington Square providing such students can demonstrate competency in the core areas, and students with special circumstances as approved by the principal or designee."

WORK-BASED LEARNING

Potential Credit Earned: 0.5 - 1.0 credit per year, up to 2.0 credits total toward graduation Interested students enrolled in a pre-approved Career and Technical Education course (CTE) or who have completed the pre-approved CTE pathway may choose to participate in Work-Based Learning. In Work-Based Learning, students will have the opportunity to apply their classroom knowledge to their job. Students will work with the Work-Based Learning Coordinator throughout the semester. Students should not enroll in Work-Based Learning as a separate class on the course registration selection form. The Work-Based Learning Coordinator will sign up students after courses have begun each semester.

- Students must work a minimum of 125 documented hours to earn 0.5 credits.
- Students may ONLY earn 0.5 credits per semester.
- Students must work a minimum of 250 documented hours to earn 1.0 credit for the entire school year.
- Students cannot earn more than 1.0 credit per school year and may ONLY earn a maximum of 0.5 credits per semester.
- Students may not be enrolled in and/or receive credit for more than one Work-Based Learning course at a time.
- Students may not count more than 2.0 Work-Based Learning credits towards graduation requirements.
- Work-Based Learning credit may not be included in, nor does it count toward, the 6.0 credit total required yearly for each student.
- Students must complete a Work-Based Learning agreement to enroll.
- Students must pass the CTE course they are enrolled in in order to earn Work-Based Learning credit that semester.

SERVICE LEARNING

Service Learning Credit can be awarded to students that complete 60 hours of unpaid approved volunteer experience within a semester. Students need to submit the Student Volunteer Time Sheet and Work Ethics Evaluation Form completed by a supervisor from the approved volunteer company and/or organization. Hours will be verified before credit is awarded. Students must be enrolled and in good standing in a FutureForward at Bollman or Washington Square program the semester the Service Learning hours are completed and credit is awarded. Students may earn a maximum of 0.5 Service Learning credits per semester. Students may not transcript more than 2.0 Service Learning credits total.

CAREERREADY COLORADO CERTIFICATE

Students enrolled in a FutureForward at Bollman or Washington Square program have the opportunity to train and test for the CareerReady Colorado Certificate developed by ACT WorkKeys. Students who complete the training and testing at the Silver Level or higher will receive 0.5 elective credits. This certificate verifies workplace competencies in three areas: Applied Math, Workplace Documents, and Graphic Literacy. The FutureForward Counseling Department facilitates training and testing. A test fee may apply.

CONCURRENT ENROLLMENT

Concurrent Enrollment is designed to improve coordination between secondary and post-secondary institutions to create a seamless pathway for students to transition from one level to the next. A student is simultaneously enrolled in FutureForward at Bollman or Washington Square and an institute of higher-level education. To receive credit in a Concurrent Enrollment (CE) course, students must be registered and earn a grade of "C" or higher in that course. CE courses will show on the high school transcript, but actual college credits will only show on the college transcript. Not all programs will be eligible for Concurrent Enrollment for the 2024-2025 school year. Please contact the registrars or counselors, or visit our website at <u>futureforward.adams12.org</u> for more information or program-specific questions about Concurrent Enrollment.

<u>AGRICULTURE</u>

VETERINARY ASSISTANT 1 & 2 - (Agriculture Pathway)

11, 12Credits: 21 Science - Animal Science 11 Fine Practical Arts/Elective Location: Washington Square

Do you love working with animals? Have you considered a job in Veterinary Medicine? Explore the field of Veterinary Science and learn hands-on, real world skills. Topics in this course include Animal Behavior & Handling, Client Communication, Hospital Safety, Medical Records, Animal Care Careers, Anatomy & Physiology and Animal Breeds. Expand your knowledge of species and animal welfare through off site clinicals and field trips. Students will have the opportunity to experience authentic partnership with local shelters and veterinary clinics.

Counseling Notes:

1. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE AGRICULTURE PATHWAY:

Veterinary Assistant	Kennel Assistant	Veterinary Technician	Veterinarian	Animal Nutritionist
Animal Control Officer	Pet Groomer	Veterinary Technician Spe	ecialist Biologist	Zoo Keeper

VETERINARY ASSISTANT 3 & 4 - (Agriculture Pathway)

12

Credits: 2

1 Science - Animal Science 2

1 Fine Practical Arts/Elective

Location Washington Square

Veterinary Assistant 3 & 4 will build upon topics covered in Veterinary Assistant 1 & 2, providing students with advanced skills, knowledge, and techniques. Students will continue to expand their knowledge in the following areas:

- Epidemiology (disease surveillance, response, and prevention)
- Parasitology (the study of parasitic organisms)
- Veterinary medical terminology and abbreviations
- Anatomy and physiology within multiple animal species
- Disease processes within the body
- Diagnostics and lab work in a clinical setting
- Medications and their uses
- Medication dosing calculations
- Anesthesia and surgical procedures

Along with this class having a very hands-on, learn-by-doing process, we also collaborate with various veterinary facilities, schools, and farms throughout the Denver Metro area, as well as with local colleges. This allows students to

network with other professionals in the field and obtain various perspectives on a variety of case studies and personal experiences from veterinary professionals. Through this program, students will have access to shadowing, volunteer, and internship opportunities through local agencies, allowing them to obtain knowledge, skills, and abilities that they can use moving forward in their career pathways.

Counseling Notes:

1. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE AGRICULTURE PATHWAY:

Veterinary AssistantKennel AssistantVeterinary TechnicianVeterinarianAnimal NutritionistAnimal Control OfficerPet GroomerVeterinary Technician SpecialistBiologistZoo Keeper

ARTS & DESIGN / MEDIA ARTS

GRAPHIC DESIGN I & 2 - (Arts & Design / Media Arts Pathway)

10, 11, 12 Credits: 2 Fine Practical Arts/Elective Location: Bollman



Graphic Design 1 & 2 students learn the fundamental elements and principles of art and design through to post-production of an actual design product using the creative processes of research, sketching and conceptualizing.

Course work and projects are developed to give each student a well-rounded understanding and the skills needed to become a proficient and knowledgeable designer. Projects are designed to increase students' artistic abilities, give a variety of perspectives for visual problem solving, and expand critical and creative thinking skills through an understanding of the foundational psychology of visual communications. Using a variety of industry-standard practices, mediums, methods, and techniques students will become competent with the graphic design process. Medium includes television, magazines, books, street signs, movies, logos/branding, packaging, communication design, typography, digital illustration, photo manipulation, page layout, mobile devices, banners, and billboards. Students will work with Macintosh computers and Adobe software.

Counseling notes:

- 1. Supplies required:
 - a. Sketchbook or journal
 - b. 8 GB or larger flash drive
 - c. Portfolio
 - d. 3-ring binder/ and 1 ream (500 sheets) copy paper
 - e. Refillable or disposable artist inking pen
- 2. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE GRAPHIC DESIGN PATHWAY:

Artist	Industrial Designer	CD/Book Jacket Designer	Web Designer	Proc
Layout Artist	Packaging Designer	Publication Design	Art Director	Ente

Production Artist Entertainment Media

GRAPHIC DESIGN 3 & 4 - (Arts & Design / Media Arts Pathway)

11, 12 Credits 2 Fine Practical Arts/Elective Location: Bollman



Graphic Design 3 & 4 students learn advanced skills and techniques in all areas of the creative process: communication arts; production; post-production; print, and web media development; visual problem solving; critical thinking; artistic fundamentals; team building, and "real world" employability skills. Students will further expand their knowledge of speaking a global, visual language and developing awareness of the power of symbols, meanings, images and words. Course work and projects are developed to give each student the necessary skills to become a competent, efficient designer who uses the technology as well as the psychology and marketing aspects of industry. Projects are designed to increase students' artistic abilities, give a variety of perspectives for visual problem solving, expand critical and creative thinking skills, and develop skills in working within a team in a studio setting. Graphic Design 3 & 4 students may also complete a job shadow with professional graphic designers.

Counseling Notes:

- 1. Prerequisite: Successful completion of Graphic Design 1 & 2
- 2. Supplies required:
 - a. Sketchbook or journal
 - b. 8 GB or larger flash drive
 - c. Portfolio
 - d. 3-ring binder/ and 1 ream (500 sheets) copy paper
 - e. Refillable or disposable artist inking pen
- 3. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE GRAPHIC DESIGN PATHWAY:

Artist	Industrial Designer	CD/Book Jacket Designer	Web Designer	Production Artist
Layout Artist	Packaging Designer	Publication Design	Art Director	Entertainment Media

GRAPHIC DESIGN INTERNSHIP - (Arts & Design / Media Arts Pathway)

12

Credits 2 Fine Practical Arts/Elective Location: Bollman

This course is designed to prepare students to enter the workforce through on-the-job training in the form of an internship. Students will have the opportunity to apply advanced graphic design skills in supervised practical experience on the job to become effective graphic designers. The student will apply prior knowledge and skills developed in portfolio pieces that are self-directed. Emphasis is placed on developing the computer and creative skills necessary to design pieces that effectively communicate information and meaning.

Counseling Notes:

1. Prerequisite: Photoshop, Graphic Design and Screen Printing each with a grade of "A" or better. This course is designed for the serious student pursuing a career in the graphics field.

VIDEO PRODUCTION 1 & 2 - (Media Arts Pathway)

10, 11, 12 Credits 2 Fine Practical Arts/Elective Location: Bollman



This course is an introduction to television, video, and film production. Students are actively involved in creating dynamic video projects using a variety of industry standard software and equipment. To be successful in the course, students are challenged to participate daily in both individual and group projects while maintaining a high level of professionalism. Students learn how to create video and films, and how to analyze and incorporate all types of techniques into a variety of projects. Students leave with an understanding of how and why media messages are constructed and for what purposes.

The following are the expected outcomes:

- Key concepts, principles, and techniques of audio, video, and film production
- Use of equipment, tools, and techniques associated with video production
- Demonstrate and apply the planning process effectively
- Project implementation for television, video, and film
- Investigate career opportunities
- Cultivate necessary workplace skills

Counseling Notes:

1. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE VIDEO PRODUCTION PATHWAY:

Video Editor Scriptwriter Television Production Manager Video Producer/Director Production Designer Storyboard Creator/Artist Videographer/Cinematographer/Photographer

VIDEO PRODUCTION 3 & 4 - (Media Arts Pathway)

11, 12 Credits 2 Fine Practical Arts/Elective Location: Bollman



Video Production 3 & 4 provides students with real world experience in the field. Each student will be expected to create productions with real clients and situations. This course will focus on advancing the students skills obtained in the Video Production 1 & 2 class. The experience gained in this course will match the format and experience of a college course. Advanced techniques will give the student the head start needed to be career ready and employable.

Some of the following will be expected:

- Advanced techniques in videography and cinematography
- Video editing skills are expected to be near expert/career-ready level
- · Projects assigned will be in line with industry expectations and topics
- Pursue industry internship and job opportunities
- Budget, write, produce, and edit complete projects in the commercial, film, corporate, and documentary genres

Counseling Notes:

- 1. Prerequisite: Successful completion of Video Production 1 & 2
- 2. In-depth knowledge of Adobe Premier Pro/Apple Final Cut Pro, DSLR camera functions and composition,

knowledge of Microsoft Office products

3. Course Fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE VIDEO PRODUCTION PATHWAY:

Video Editor Scriptwriter Television Production Manager Video Producer/Director Production Designer Storyboard Creator/Artist Videographer/Cinematographer/Photographer

VIDEO PRODUCTION INTERNSHIP - (Media Arts Pathway)

12 Credits 2 Fine Practical Arts/Elective Location: Bollman

This course is designed to prepare students to enter the workforce through on-the-job training in the form of a job shadow/internship. The Focus of this program is to advance knowledge and hone skills needed to be "workforce ready." Besides working on weaknesses, students will be filming projects for the school/district, working alongside Level II students, networking with industry professionals training in the field, and creating short films beyond current capabilities.

Counseling Notes:

1. Prerequisite: Successful completion of Video Production 3 & 4 and Instructor recommendation

CRIMINAL JUSTICE & PUBLIC SAFETY

CRIME SCENE INVESTIGATION 1 & 2 - (Criminal Justice & Public Safety Pathways)

11 & 12 Credits: 2 1 Science - Forensic Science 1 1 Fine Practical Arts/Elective Location: Washington Square

COMMUNITY COLLEGE of AURORA

In this class, students will be provided hands-on experience on what real Crime Scene Investigators do. This course includes what a Crime Scene Investigator does working in the field and laboratory processing. Students will learn how the investigation team works and the Crime Scene Investigator's role. In this course, students will have the opportunity to use real crime lab equipment and study the following:

- Digital SLR photography
- Crime scene documentation
- Latent print processing techniques
- Trace evidence analysis
- Alternate Light Source (ALS) for evidence location, as well as chemical photography
- Impression evidence

Along with this class having a very hands-on, learn-by-doing process, we also collaborate with various law

enforcement agencies and coroner offices throughout the Denver Metro area. This allows students to network with other professionals in this field and obtain various perspectives on a variety of case studies and personal experiences from forensic and law enforcement professionals. Through this program, students will have the potential of obtaining volunteer and shadowing opportunities through local agencies and obtain knowledge, skills and abilities that they can use moving forward in their career pathways.

Notes:

- Program will work in partnership with local area police departments.
- This course may contain sensitive material and graphic images.

Counseling Notes:

1. Course fee: \$40.00.

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE CRIME SCENE INVESTIGATION PATHWAY:

Crime Scene Investigator Latent Print Examiner Crime Scene Reconstructionist Forensic Science Technician Forensic Autopsy Technician Evidence Technician Forensic ID Technician/Criminalist Crime Laboratory Analyst DNA Analyst

CRIME SCENE INVESTIGATION 3 & 4 - (Criminal Justice & Public Safety Pathways)

12

Credits: 2 1 Science - Forensic Science 2 1 Fine Practical Arts/Elective Location: Washington Square

In this class, students will further their knowledge of the investigative team and their roles/responsibilities. Students will further their expertise in crime scene investigation in the following areas:

- Timed/Aerial/Painting with light photography
- Chemical enhancements, to include BlueStar & Luminol
- Laser & shooting trajectory
- Latent print analysis & comparison
- Traffic accident documentation & reconstruction
- Bloodstain pattern analysis to include area of convergence & area of origin
- Faro 3D scanner
- Reflective Ultraviolet Imaging System (RUVIS)
- UV/IR forensic photography
- Gunshot residue recognition and documentation
- Clandestine graves
- Forensic entomology

Along with this class having a very hands-on, learn by doing process, we also collaborate with various law enforcement agencies and coroner offices throughout the Denver Metro area. This allows students to network with other professionals in this field and obtain various perspectives on a variety of case studies and personal experiences from forensic and law enforcement professionals. Through this program, students will have the potential of obtaining volunteer and shadowing opportunities through local agencies and obtain knowledge, skills and abilities that they can use moving forward in their career pathways.



Notes:

- Program will work in partnership with local area police departments.
- This course may contain sensitive material and graphic images.

Counseling Notes:

- 1. Prerequisite: Successful completion of CSI 1 & 2
- 2. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE CRIME SCENE INVESTIGATION PATHWAY:

Crime Scene Investigator Latent Print Examiner Crime Scene Reconstructionist Firearms Examiner Bloodstain Pattern Analyst Colorado Bureau of Investigation-Forensic Investigator

Forensic Science Technician Forensic Autopsy Technician Evidence Technician Forensic Entomologist Forensic Toxicologist

Forensic ID Technician/Criminalist Crime Laboratory Analyst DNA Analyst Forensic Pathologist Coroner FBI- Evidence Response Team

EMERGENCY MEDICAL TECHNICIAN - EMT 1 & 2 - (Criminal Justice, & Public Safety Pathways)

12 Credits: 2 1 Science - Pathophysiology 1 Fine Practical Arts/Elective Location: Washington Square



The EMT program is designed for the student wishing to investigate health-related and public safety careers. The areas of study include pathophysiology, safety practices, simulated clinical situations, medical emergencies, working in the pre-hospital setting, and providing patient transportation. Students may have the opportunity to have authentic experiences with local emergency medical service agencies.

All experiences are delivered through classroom, laboratory, and simulated clinical situations. The EMT program will provide the foundation for professional opportunities in the medical field, e.g. nursing, physician, dental, medical records, pharmacy, firefighter, paramedic, and other emergency medical services. EMT provides students with general workplace skills and specific health industry knowledge that can assist them in attaining employment in a variety of entry-level positions within the health care setting, or continue their education at the post-secondary level.

Note: This course may contain sensitive material and graphic images.

Counseling Notes:

1. Course fee: \$40.00

Students in this program will learn the following skills:

- Demonstrate an understanding of the roles and responsibilities of the EMT
- Demonstrate an understanding of the medical legal aspects
- Determine and record vital signs of a sick or injured person
- Use medical identification devices
- Identify the potential for a spinal injury
- Conduct a primary assessment of problems that are a threat to life if not corrected immediately

- Demonstrate Healthcare Professional BLS (Basic Life Support) procedures
- Recognize and control bleeding
- Recognize and control shock
- Identify and use mechanical aids to breathing
- Provide a secondary assessment of the patient
- Identify musculoskeletal injuries and treat them accordingly and effectively
- Provide emergency evacuation and transfer of a sick and/or injured patient
- Identify and care for patients who need specialized care

- Provide triage to victims of mass casualty incidents
- Recognize life-threatening situations
- Recognize entrapment situations
- Assist with emergency childbirth
- Identify critical incident stressors and techniques to effectively deal with them
- Communicate patient information to appropriate authorities
- Effectively communicate, both verbally and non-verbally, with patients of all ages

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN EMT PATHWAY:

EMT

Firefighter

ER Physician

Psychologist Registered Nurse Paramedic

COMMUNITY

COLLEGE of AURORA

FIREFIGHTING 1 & 2 - (Criminal Justice & Public Safety Pathways) 10, 11, 12

Credits: 2 1.5 Fine Practical Arts/Elective 0.5 Physical Education Credit-Candidate Physical Aptitude Test (CPAT) Location: Washington Square

A firefighter is an important figure within the public health and safety industry. Firefighters combat and extinguish fires, often working in high-pressure circumstances. Students will learn hands-on, practical skills in firefighter orientation, safety, fire behavior, building construction, firefighter personal protective equipment, fire streams, fire control, fire detection, alarm and suppression systems, loss control, and communications. Students will also earn college credits through CCA in the Fire Science Program.

Notes:

- Program will work in partnership with local area fire departments.
- This course may contain sensitive material and graphic images.

Counseling Notes:

1. Course fee: \$40.00.

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE FIREFIGHTING PATHWAY:

Firefighter

Paramedic

Hazmat Technician

EMT

Wildland Firefighter

FIREFIGHTING 3 & 4 - (Criminal Justice, & Public Safety Pathways)

11.12 Credits: 2 Fine Practical Arts/Elective Location: Washington Square



This program is designed to provide advanced training in firefighting skills such as extinguishing liquid and

gas/vapor fueled fires, auto extrication, hazardous materials response awareness, advanced search and rescue skills and team leadership skills. Students will have the opportunity to complete clinical related experiences with live fire scenarios. Students will also have the opportunity to test for the State of Colorado Firefighter I certification, CPAT (Candidate Physical Aptitude Test) and earn college credits through CCA's Fire Science Program.

Notes:

- Program will work in partnership with local area fire departments.
- This course may contain sensitive material and graphic images.

Counseling Notes:

- 1. Prerequisite Successful completion of Firefighting 1 & 2
- 2. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE FIREFIGHTING PATHWAY:

Firefighter

Paramedic

Hazmat Technician

EMT

Wildland Firefighter

LAW ENFORCEMENT 1 & 2 - (Criminal Justice & Public Safety Pathways) 10, 11, 12 Credits: 2 Fine Practical Arts/Elective Location: Washington Square



Do you dream of working as a police officer, investigator, prosecutor, defense attorney, or a corrections officer? A career in law enforcement can be exciting and rewarding. Students will learn about law-enforcement-related professions through practical, industry-related experiences-providing students exposure to police procedures, defensive tactics, criminal statutes, arrest control, courtroom procedures, and verbal de-escalation so they can graduate with a competitive advantage in their chosen field. The curriculum will provide the most authentic, industry standard experience that is hands on, including the use of an interactive training simulator. Students will review traffic laws, including driving under the influence of alcohol and drugs. This course reviews principles of federal, state, criminal and civil laws and court cases as they apply to and affect law enforcement. Standard law enforcement techniques and practices will be taught by both CTE educators and professionals in their respective fields.

Since the Law Enforcement program prepares students for positions in fields related to law enforcement and public safety, developing and maintaining professional skills is paramount and is a significant element throughout the program.

Notes:

- Program will work in partnership with Westminster Police, Dispatch, and Records; Broomfield Police, Dispatch and Sheriff's Office; Adams County Sheriff's Office.
- This course may contain sensitive material and graphic images.

Counseling Notes:

1. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE LAW ENFORCEMENT PATHWAY:

Police Officer Background Investigator Dispatcher

Security Screener Records Specialist Animal Control

Detective

LAW ENFORCEMENT 3 & 4 - (Criminal Justice & Public Safety Pathways)



11, 12 Credits: 2 Fine Practical Arts/Elective Location: Washington Square

Law Enforcement 3 & 4 students will learn advanced skills, knowledge, and techniques that were learned in the Law Enforcement 1 & 2 course. In this course, students will learn more in-depth knowledge of traffic investigation, including traffic accident reconstruction. Students will undergo advanced Investigation training and Interrogation training, which will also include Crisis Intervention Training (CIT). Students will also have the opportunity to participate in courtroom testimony, in the classroom and in an actual courtroom. Students will also learn more in depth about being a 911 Dispatcher and a Correctional Officer. Students will obtain more de-escalation skills, specifically when dealing with people in a crisis state and situations involving mental health. If you were enrolled in the Law Enforcement 1 & 2 course, and want to become experts on your skills, techniques, and knowledge, then this course is for you. Law Enforcement experts will teach and train students within this course.

Notes:

- Program will work in partnership with Westminster Police, Dispatch, and Records; Broomfield Police, Dispatch and Sheriff's Office; Adams County Sheriff's Office.
- Mental Health First Aid Certification possible
- This course may contain sensitive material and graphic images.

Counseling Notes:

- 1. Prerequisite Successful completion of Law Enforcement 1 & 2
- 2. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE LAW ENFORCEMENT PATHWAY:

Detective	
Bailiff	

Court Reporter Paralegal District Attorney

Investigator

ENGINEERING, COMPUTER & DIGITAL TECHNOLOGIES

AP COMPUTER SCIENCE A - (Computer & Digital Technologies Pathways)

10, 11, 12 Credit: 1 Fine Practical Arts/Elective Location: Bollman

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. The course emphasizes object-oriented programming and design using the Java programming language.

Counseling Notes:

1. Prerequisites: Coding I and Coding II; or AP Computer Science Principles; or teacher approval. Students must also be enrolled in, or have completed, Integrated Math II.

- 2. Course fee: \$97 for AP Examination
- 3. All students taking AP Computer Science A will be required to attempt the Advanced Placement Examination in order to receive the weighted credit for this course. A score of two or better demonstrates Math competency for new graduation guidelines.
- 4. There will also be a mandatory guardian/student meeting in April that will cover class expectations. At that time, the guardian and student will sign an AP contract.
- 5. This course may be taken online through Bollman (Contact Bollman Counselors for details).

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE COMPUTER SCIENCE PATHWAY:

Computer Programmer	Computer Engineer	Web Designer	IT Specialist
Network Technician	Video Game Designer		

CYBERSECURITY - Computer & Digital Technologies Pathways)

10, 11, 12 Credit: 1 Fine Practical Arts/Elective Location: Bollman

In this one-year course students increase their cyber awareness, which helps to develop a more educated cyber workforce. Students will get hands-on experience securing vulnerabilities on a Windows Server, a Linux machine, and a Windows machine. Students will also be exploring the following topics:

Law explores the differences between a criminal offense and a moral wrong, protection of intellectual property, the functions and uses of permanent electronic records, and the role of laws in addressing social challenges.

Politics inspects how cyberspace, and specifically social media, influences the political climate around the world as well as the ways hacking affects those same politics.

Terrorism analyzes the motivations behind, desired outcomes of, and consequences of acts of terrorism and discusses appropriate counter attacks or counter measures.

Networking and Security (NS) showcases the structure of networks as well as the vulnerabilities. The need for security is heavily emphasized through man-in-the-middle attacks, cryptography, and steganography.

Ethics examines ethical implications of extensive technology use such as conceptions of friendships, privacy, personality, and the harms inherent in new technologies.

Communities investigates the necessity of a networked society, crowdsourcing information, technology used in communication, virtual collaboration, and team dynamics.

Business demonstrates the collection, storage, usage, and protection of data; cybersecurity attacks and threats; and technology to improve information security.

Artificial Intelligence introduces a definition of "smart" technology, examines the concept of intelligence, and explores the current and potential future roles of AI around the globe.

Counseling Notes:

- 1. Prerequisite: Coding I or AP Computer Science Principles
- 2. This course may be taken online through Bollman (Contact Bollman Counselors for details)
- 3. Course fee: \$20.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE CYBER SECURITY PATHWAY:

Cyber Crime Investigator Software Development Cybersecurity Consultant Cybersecurity Engineer IT Auditor

NETWORKING A & B - (Computer & Digital Technologies Pathways)

10, 11, 12 Credits: 2 Fine Practical Arts/Elective Location: Bollman

Networking A & B is an advanced course designed to emphasize the conceptual and practical skills necessary to design, manage, and diagnose network hardware and software. Upon completion of this course, proficient students will identify types of networks, understand the layers of the open systems interconnection (OSI) model, prevent security risks, and apply troubleshooting theory to the successful execution of networking tasks. Course content covers transmission control protocol, internet protocol, wired and wireless topologies, switching and routing, network hardware, wireless networking, and network operating systems (NOS). Upon completion of this course, proficient students will be prepared to sit for the CompTIA Network+ exam. Students will also be halfway through the curriculum necessary to take the Cisco CCNA certification exam.

Counseling Notes:

- 1. Prerequisite: Coding I or AP Computer Science Principles
- 2. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE NETWORKING PATHWAY:

Networking Administrator Cybersecurity Specialist / Technician Network Engineer Network Incident Analyst/Responder

Network Technician

NETWORKING C & D - (Computer & Digital Technologies Pathways)

11, 12 Credits: 2 Fine Practical Arts/Elective Location: Bollman

In this course, students develop and build a foundation for success in networking-related careers and degree programs. With the support of video and rich interactive media, participants learn, apply, and practice CCNA knowledge and skills through a series of in-depth hands-on experiences and simulated activities that reinforce their learning. Upon completion of this course students will be prepared to take the Cisco CCNA certification exam.

Counseling Notes:

- 1. Prerequisite: Networking A & B
- 2. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE NETWORKING PATHWAY:

Networking Administrator Cybersecurity Specialist / Technician Network Engineer Network Technician

SR COMPUTER SCIENCE PROJECTS - (Computer & Digital Technologies Pathways)

11, 12 Credit: 1 Fine Practical Arts/Elective Location: Bollman

In this one-year course, students learn Agile Scrum (a framework for managing knowledge while working, with an emphasis on software development) while designing a Computer Science Project. By the end of the course, students can take the Professional Scrum Master I (PSMI) Certification exam. Project areas could include Advanced Cyber Security Skills, real-world authentic problems from industry partners, or authentic problems from school district staff.

Counseling Notes:

- 1. Prerequisite: AP Computer Science A or Cybersecurity or Networking or instructor approval
- 2. Course fee: \$20.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE COMPUTER SCIENCE PATHWAY:

Information Technology	Project Manager	Software Engineer	Video Game Designer
Cybersecurity Consultant	Computer Programmer	Web Designer	

PRINCIPLES OF ENGINEERING – (Engineering Technology Pathway)

10, 11, 12 Credit: 1 Fine Practical Arts/Elective Location: Bollman

This survey course exposes students to major concepts they will encounter in a post-secondary engineering course of study. Topics include mechanisms, hydraulics, pneumatics, computer, interfacing, robotics, computer-aided design, electronics, energy, statics, materials, and kinematics. Students learn to use engineering mathematics and develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work, and communicate solutions.

Counseling Notes:

- 1. Students that complete this course may be eligible to test for Solidworks certification. This certification may be used to demonstrate competency for new graduation guidelines.
- 2. Students should have a good understanding of basic algebraic mathematics
- 3. This course is recommended for students interested in design and engineering
- 4. Course fee: \$20.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE ENGINEERING PATHWAY:

Mechanical Engineer Electrical Engineer Structural Engineer Alternative/Renewable Energy Technician

AEROSPACE ENGINEERING - (Engineering Technology Pathway)

11, 12 Credit: 1 Fine Practical Arts/Elective Location: Bollman Aerospace engineering explores the evolution of flight, navigation, and control, flight fundamentals, aerospace materials, propulsion, space travel, and orbital mechanics. In addition, this course presents alternative applications for aerospace engineering concepts. Students analyze, design, and build aerospace systems. Topics covered in the course may include the history of flight, aerodynamics and aerodynamics testing, flight systems, astronautics, space life systems, aerospace materials, and systems engineering. Interplanetary probes and control are also explored.

Counseling Notes:

- 1. This course is rigorous in both Math and Science. Students registering for Aerospace should have successfully completed or be currently enrolled in CP Physics and Math III or have instructor approval.
- 2. This course is recommended for students interested in design and engineering.
- 3. Course fee: \$20.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE AEROSPACE ENGINEERING PATHWAY:

Aerospace Engineer Mechanical Engineer Engineering Manager Aerospace Systems Analyst

COMPUTER INTEGRATED MANUFACTURING - (Engineering Technology Pathway)

11, 12 Credit: 1 Fine Practical Arts/Elective Location: Bollman

How are things made? What processes go into creating products? How has automation changed manufacturing? You will be presented with design problems that require the use of advanced Computer Aided Design to develop solutions. Students will learn to use manual mill and lathe machines, CNC (Computer Numeric Control) machinery to produce your design. These skills will be used to develop projects. Utilizes project/problem based learning. Students will design, create, and program robotic devices. Several new software applications are learned in this course.

The following are expected outcomes:

- Learn how products are made.
- Program Robots & Robotic Arms
- Programmable Micro-Computers
- Computer Aided Design Engineering Modeling Software
- Automated Machining (CNC Mill)
- Learn to speak the language of Machines

Counseling Notes:

- 1. Prerequisite: Students registering for CIM should have successfully completed or currently be enrolled in Contemporary Math II and Principles of Engineering
- 2. This course is recommended for students interested in design and engineering
- 3. Course fee: \$20.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENT IN THE COMPUTER INTEGRATED MANUFACTURING PATHWAY:

Manufacturing

Mechanical Engineer

Industrial Engineer

Project Management

HEALTH SCIENCE

INTRODUCTION to MEDICAL CAREERS - (Health Science Pathway)

10, 11, 12 Credit: 1 Fine Practical Arts/Elective Location: Bollman

Are you considering a career in the medical field? How will you choose from the numerous specialties available in this field? This engaging introductory course will provide students with the opportunity to interact with medical professionals and explore the many opportunities available. In addition to this fun exploration, students will be introduced to basic medical terminology, gain an introduction to body systems, and practice leadership and teamwork through participation in HOSA (Future Health Professionals).

Counseling Notes:

1. Course fee: \$20.00

POSSIBLE FUTURE CAREER OPPORTUNITIES FOR STUDENTS IN MEDICAL CAREERS PATHWAY:

Nurse	Athletic Trainer	CNA	EMR/EMT/Paramedic
Doctor	Dental Hygienist	Vet Tech	Massage Therapist
Physical Therapist	Dentist	Veterinarian	Psychiatrist

MEDICAL SCIENCES I & 2 - (Health Science Pathway)

11, 12Credits: 21 Science - CP Anatomy and Physiology1 Fine Practical Arts/ElectiveLocation: Bollman

The Medical Sciences 1 & 2 program is designed for students who are interested in pursuing careers in the healthcare field. This course is also recommended for students who plan to apply for Advanced Medical Sciences/CNA or Emergency Medical Technician/EMT in their senior year. The core curriculum is based on National Health Science Standards and is focused on the following:

- CP Anatomy & Physiology
- Healthcare career exploration
- Workplace skills, including problem-solving and teamwork
- Medical terminology
- Law and Ethics in Health Care
- Vital Signs
- First Aid a certification

Students are encouraged to participate in HOSA (Future Health Professionals) and may participate in fundraising activities to help pay these costs:

- HOSA Leadership Conferences
- Field trips
- Anatomage Table for virtual cadaver experiences
- First Aid certification

Counseling Notes:

- 1. Students that complete this course are eligible to test for National Health Science Certification (this certification may be used to demonstrate competency for the new graduation guidelines.)
- 2. Course fee: \$40.00

POSSIBLE FUTURE CAREER OPPORTUNITIES FOR STUDENTS IN MEDICAL SCIENCES PATHWAY:

Nurse	
Doctor	
Physical	Therapist

Athletic Trainer Dental Hygienist Dentist CNA Vet Tech Veterinarian EMR/EMT/Paramedic Massage Therapist Psychiatrist

ADVANCED MEDICAL SCIENCES - CNA 1 & 2 - Certified Nurse Aide - (Health Science Pathway)

Credits: 2.5 1 Science – Pathophysiology 1.5 Fine Practical Arts/Elective Location: Bollman

The Advanced Medical Sciences/CNA program is designed for the mature, responsible student wishing to investigate careers in the medical field. Students interested in registering for this program should have a serious interest and long-term goal of employment in the medical field. A strong commitment to the program is necessary to be successful in this class. This program emphasizes character building, honesty, integrity, and professionalism. The core of the curriculum is focused on the following curriculum: medical terminology, pathophysiology, basic nursing skills, career exploration, safety practices, ethics, and human relations. All are delivered through classroom, laboratory, and clinical situations. Students successfully completing this course will receive their CPR/First Aid Certification. They will also be eligible to take the Nurse Aide exam with the Board of Nursing to become certified nursing assistants, if all portions of the course, including clinicals, are successfully completed. Students are encouraged to participate in HOSA (Future Health Professionals) and may participate in fundraising activities for conferences and competitions.

IMMUNIZATIONS NEEDED:

- MMR (Measles, mumps, rubella)
- Polio
 Variable (abia
- Tdap (tetanus, diphtheria, pertussis)
 Hepatitis B (Hep B Can take up to six months to complete)
- Varicella (chicken pox)
- Influenza
 - COVID-19

All immunizations must be completed by November 1st. Clinical sites require that, if you have an exemption on your immunization record, you must have liters drawn and submitted to show that you are immune.

SCREENINGS:

- TB (Tuberculosis)
- Criminal Background Check Due November 1st

Go to <u>cccs.castlebranch.com</u>, Select FutureForward at Bollman and follow prompts. Clinical facilities require a criminal background check on each student prior to allowing them to participate in clinical experiences at their facilities.

Counseling Notes:

1. Prerequisite: Successful completion of Medical Sciences 1 & 2, CP/AP Anatomy & Physiology, or other CP or

AP science course in the 11th grade year

- 2. Excellent attendance
- 3. Course fee: \$50.00

Class Format:

Semester 1:

This course is offered in a two-hour block that includes classroom work, labs, field trips, and guest speakers.

Semester 2:

This course is offered in a three-hour block to include clinical experiences working with patients in a hospital, nursing home, and/or internship site settings. Students must provide their own transportation for these clinical experiences. Students enrolled in the 6/7/8 block must provide their own transportation after 8th hour, second semester.

Student Requirements:

- 1. Students must have 75% or higher in the course curriculum standards and teacher recommendation to continue in this class second semester
- 2. Uniforms are required for both the class and clinicals.
- 3. Students are required to have the following items for clinical and internship experiences:
 - a. Watch with second hand (analog)
 - b. Black scrub pants (no sweats, leggings, or jeans) and turquoise scrub top (may be checked out from Bollman)
 - c. Closed toe shoes (tennis shoes or nursing, etc.)
 - d. Tattoos must not be visible during clinicals.
 - e. No facial piercings, only a single post in each ear during clinicals.
 - f. Nails must be kept clean and short. No artificial nails during clinicals.
 - g. Appropriate hair color is required during clinicals.

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN MEDICAL SCIENCES-CNA PATHWAY:

Physician/Surgeon Pediatrician Psychiatrist Physical Therapist

Psychologist Respiratory Therapist

Oncologist or other Specialist **Registered Nurse** Veterinarian

SPORTS MEDICINE 1 & 2 - (Health Science Pathway)

11, 12 Credits: 2 **1** Fine Practical Arts/Elective 1 Science - Kinesiology 1 Location: Washington Square



The Sports Medicine Class is designed for students to learn about medical issues associated with sports from joint pain to osteoarthritis to nutrition. Topics covered in this class include: athletic training, physical therapy, medicine, fitness, exercise physiology, kinesiology, nutrition, injury risk reduction, treatment, rehabilitation, emergency injury management and administrative functions. This class will have a hands-on application in order to provide students with an avenue to explore these fields. Through these connections, students will understand the importance of exercise, nutrition and treatment modalities and the role they play in the physically active community.

Counseling Notes:

1. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE SPORTS MEDICINE PATHWAY:

- Exercise Physiologist Athletic Trainer Orthopedic Nurse Occupational Therapist Physical Therapist Dietician
- Sports Psychologist Sports Medicine Nurse Orthopedic Surgeon Sports Medicine Physician Physiatrist
- Chiropractor Massage Therapist Physician Assistant Physical Therapist Assistant Personal Trainer

SPORTS MEDICINE 3 & 4 - (Health Science Pathway)



12 Credits: 2 1 Fine Practical Arts/Elective 1 Science - Kinesiology 2 Location: Washington Square

Sports Medicine 3 & 4 will offer students the opportunity to become *Certified Personal Trainers*. In this class, the study material for personal training, the practice tests, and the in-person examination will be included in the course fee. The certification is offered through an organization called the National Academy of Sports Medicine or NASM. Once certified, students will be able to work for companies like health clubs, gyms or even start their own business.In addition to frequent hands-on opportunities, we will also collaborate with healthcare professionals outside of athletic training to allow students to network, learn about job opportunities, attain shadowing experiences, and develop professional relationships for future reference opportunities.

Counseling Notes:

- 1. Prerequisite Successful completion of Sports Medicine 1 & 2
- 2. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE SPORTS MEDICINE PATHWAY:

Exercise Physiologist Athletic Trainer Orthopedic Nurse Occupational Therapist Physical Therapist Dietician Sports Psychologist Sports Medicine Nurse Orthopedic Surgeon Sports Medicine Physician Physiatrist Chiropractor Massage Therapist Physician Assistant Physical Therapist Assistant Personal Trainer

HOSPITALITY, HUMAN SERVICES & EDUCATION

PROSTART 1 & 2 - (Hospitality/Culinary & Food Production, and Business Management & Administration



Pathways) 10, 11, 12 Credits: 2 Fine Practical Arts/Elective Location: ESC (Culinary Arts/Hospitality/Lodging/Business Management Related Curriculum)

Interested in a fast-paced, hands-on, creative career? Do you have a passion for food or travel? ProStart may be the class for you. The ProStart program is designed to expose students to the culinary, tourism, and hospitality fields including food preparation, management, and customer service. Through the curriculum, students are able to blend food science, technical skills, and industry knowledge with each student's creativity and passion.

ProStart is a nationally certified college-prep business management program focusing on the hospitality industry. The ProStart curriculum is built around providing students the necessary industry skills and knowledge to succeed within the hospitality and tourism industry as well as a post-secondary hospitality or culinary program.

Content covered in this program:

- Food Safety and Sanitation
- Stocks, Soups, and Sauces
- Cooking Methods and Techniques
- Food Costing and Menu Control
- Salads, Dressings, and Dips
- Breakfast Foods and Sandwiches
- Management Strategies
- Garnishing and Plating Techniques

- Kitchen Hierarchy and Brigade
- Nutrition
- Global Cuisine
- Meat, Poultry, and Seafood
- Kitchen Equipment
- Knife Skills
- Customer Service and Serving Techniques

Counseling Notes:

- 1. Students that complete this course may be eligible to test for ProStart certification.
- 2. ProStart is a culinary arts and restaurant management program, taught by a professional Chef, and designed to prepare students for culinary school, apprenticeships, and/or careers in the industry.
- 3. ProStart is a FutureForward program taught at the Educational Support Center (Admin Building) 128th & Claude Ct. Transportation is provided.
- 4. Course fee \$85.00
 - a. Personalized chef coat and chef hat included in course fee.

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE PROSTART/CULINARY PATHWAY:

Caterer	Chef/Pastry Chef	Hotel General Manager	Food Photographer
Event Planner	Restaurant Entrepreneur	Food/Beverage Director	Food Scientist/R & D Chef

BAKING AND PASTRY APPLICATIONS 1 & 2 - (Hospitality/Culinary & Food Production, and Business Management & Administration Pathways)

11, 12 Credits: 2 Fine Practical Arts/Elective Location: ESC

Baking and Pastry Applications is designed to expose students to advanced techniques of baking and pastry, combining creativity with food science to produce ornate and delicious pastries and baked goods. For students who know they are pursuing a career in culinary arts, this class will enable them to dive deeper into advanced food production techniques, develop technical skills, and learn vital aspects of foodservice management. **Content covered in the program:**

- Advanced Breads and Cakes
- Advanced and Classic Plated Desserts
- Functions of Ingredients in Baking
- Safety and Sanitation

• Food Artistry and Chocolate Work

COMMUNITY COLLEGE

of AURORA

- Cold Desserts
- Pies, Soufflés, and Custards
- Employability Skills
- Foodservice Management

Counseling Notes:

- 1. Prerequisite: Students must pass ProStart 1 & 2 with a minimum of 75% each semester
- 2. Course fee \$40.00
 - a. Personalized chef coat \$15.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE BAKING APPLICATIONS PATHWAY:

Baker	
Pastry Chef/Chef	

Line Chef Food Artist Food Scientist/R&D Chef Food/Beverage Manager

INTRODUCTION TO BEHAVIORAL AND MENTAL HEALTH 1 & 2 - (Human Services Pathway)

10, 11, 12 Credits: 2 Fine Practical Arts/Elective Location: Bollman

This program is designed for students who are interested in pursuing careers in the behavioral/mental health fields. **Students will:**

- Explore educational and professional behavioral health career pathways
- Study common behavioral and mental health disorders and spectra
- Apply legal, professional, and ethical considerations important to the delivery of safe and effective behavioral health care
- Identify various communication techniques, including therapeutic communication and motivational interviewing, to assist in developing the skills needed to build therapeutic relationships with clients and improve patient outcomes in behavioral health settings
- Create a resource notebook, life skills class, and multiple project based learning assignments to take with them into the field

Counseling Notes:

- 1. Concurrent enrollment in PSY 1001 (General Psychology I), PTE 1010 (Intro to Behavioral Health Care and Wellness), and PSY 1002 (General Psychology II)
- 2. Course fee: \$40.00.

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE BEHAVIORAL AND MENTAL HEALTH PATHWAYS:

Behavioral Health TechnicianSocial WorkerPsychologistPsychiatristMedicalPsychiatric NurseSchool CounselorTherapistLaw EnforcementEducation

ADVANCED BEHAVIORAL AND MENTAL HEALTH 3 & 4 – (Human Services Pathway)

11, 12 Credits: 2 Fine Practical Arts/Elective Location: Bollman

Students will:

- Continue with all concepts introduced in Level 1 & 2 in a more advanced capacity
- Complete project based learning, including court reports, real life use of skills, and proper use of DSM-5-TR

Counseling Notes:

- 1. Prerequisite: Successful completion of Introduction to Behavior and Mental Health 1 & 2
- 2. Concurrent enrollment in PSY 2440 (Human Growth and Development) and PSY 2552 (Abnormal Psychology)
- 3. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE BEHAVIORAL AND MENTAL HEALTH PATHWAYS:

Behavioral Health Technician	Social Worker	Psychologist	Psychiatrist	Medical
Psychiatric Nurse	School Counselor	Therapist	Law Enforcement	Education

ADVANCED BEHAVIORAL AND MENTAL HEALTH 5 & 6 - (Human Services Pathway) 12



Credits: 2 Fine Practical Arts/Elective Location: Bollman

In this advanced course, students will continue to expand their knowledge in all concepts introduced in level 3 & 4 courses. Students will study personality theory and abnormal psychology with opportunities for additional college credit. In addition there will be differentiated in-the-field placements providing hands-on learning opportunities. They will also work to solidify their Motivational Interviewing Skills as well as develop clarity in using the DSM-5 and DSM-5TR in various fields in relation to mental health diagnosis.

Counseling Notes:

- 1. Prerequisite: Successful completion of Advanced Behavioral and Mental Health 3 & 4
- 2. Course fee: \$40

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE BEHAVIORAL AND MENTAL HEALTH PATHWAYS:

Behavioral Health Technician Psychiatric Nurse

Social Worker School Counselor Psychologist Therapist

Psychiatrist Law Enforcement

Medical Education

P-TEACH INTERNSHIP - (Education Pathway)



Location: Bollman

Want to explore what the profession of teaching looks and feels like? Work in a classroom, support a teacher in our system, and gain invaluable experiences with students. Students are eligible to participate in an education specific internship in the P-TEACH pathway of their choice. Internship opportunities are individualized to match the interests of students. Internships can range from PreK, Elementary, Secondary, Music, ART and SPED. *This semester course is offered during the fall and spring semesters and can be repeated for credit.*

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE EDUCATION PATHWAY:

Coach Counselor Social Worker Psychologist Speech/Language Pathologist Elementary/Secondary Teacher Special Education Teacher Private Industry Trainer School Administrator Child Advocate

UEDU 1930 INTRO TO SOCIALLY JUST TEACHING I - (Education Pathway)

11, 12 Credits: 0.5 English Location: Bollman

Students will critically examine current education issues that affect their lives, their local community, and P-12 classrooms throughout the state and the country. Throughout this course, students will examine achievement data (local, state and national) by gender, race, ethnicity, English language proficiency, and program type (gifted/ talented, special education, honors, Advanced Placement, etc.) and use this analysis to generate questions, offer solutions, and engage in critical dialogue about educational inequalities and educational justice. *English credit does not replace English 11*.

Counseling Notes:

- 1. Taken in conjunction with LCRT 2000 Rebels, Villains and Superheroes
- 2. Concurrent enrollment course
- 3. Course fee: \$10.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE EDUCATION PATHWAY:

Coach Counselor Social Worker Psychologist Speech/Language Pathologist Elementary/Secondary Teacher Special Education Teacher Private Industry Trainer School Administrator Child Advocate

LCRT 2000 REBELS, VILLAINS AND SUPERHEROES - (Education Pathway)

11, 12 Credits: 0.5 Fine Practical Arts/Elective Location: Bollman

This Core Humanities Course explores both class and contemporary children's and adolescent literature and media. This course focuses on exploring perspectives and personal responses to literature , developing literary understandings among children and teens, and exploring how literature impacts identity development. Course readings include children's books, young adult literature, apps, graphic novels, and multimodal texts. Students will read and respond to literature from the dual perspective of a literary genre and representation of the pivotal issues of child and adolescent identity development.



Counseling Notes:

- 1. Taken in conjunction with UEDU 1930 Intro to Socially Just Teaching I
- 2. Concurrent enrollment course
- 3. Course fee: \$10.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE EDUCATION PATHWAY:

Coach Counselor Social Worker Psychologist Speech/Language Pathologist Elementary/Secondary Teacher Special Education Teacher Private Industry Trainer

School Administrator Child Advocate

UEDU 1931 INTRO TO SOCIALLY JUST TEACHING II - (Education Pathway)



11, 12 Credits: 0.5 English Location: Bollman

Students will critically examine current education issues that affect their lives. Throughout this course we will examine achievement data (local, state and national) by gender, race, ethnicity, English language proficiency, and program type (gifted/ talented, special education, honors, Advanced Placement, etc.). Students will then engage in their own social action plan related to social inequities in the school setting and present their findings to a community forum. *English credit does not replace English 11.*

Counseling Notes:

- 1. Taken in conjunction with HDFR 1010 Lifespan Development in Ecological Settings
- 2. Concurrent enrollment course
- 3. Course fee: \$10.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE EDUCATION PATHWAY:

Coach Counselor Social Worker Psychologist Speech/Language Pathologist Elementary/Secondary Teacher Special Education Teacher Private Industry Trainer School Administrator Child Advocate

HDFR 1010 LIFESPAN DEVELOPMENT IN ECOLOGICAL SETTINGS - (Education Pathway)



11, 12 Credits: 0.5 Fine Practical Arts/Elective Location: Bollman

This course is designed to introduce students to human development in ecological settings in particular family, school and community contexts as it occurs across the lifespan, including emotional, physical, and cognitive development, and emphasizes personal adjustment and achievement.

Counseling Notes:

- 1. Taken in conjunction with UEDU 1931 Intro to Socially Just Teaching II
- 2. Concurrent enrollment course
- 3. Course fee: \$10.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE EDUCATION PATHWAY:

Coach Counselor Social Worker Psychologist Speech/Language Pathologist Elementary/Secondary Teacher Special Education Teacher Private Industry Trainer

School Administrator Child Advocate

SKILLED TRADES & TECHNICAL SCIENCES

AUTOMOTIVE COLLISION REPAIR AND REFINISHING 1 & 2 - (Transportation, Distribution & Logistics Pathways)

10, 11, 12 Credits: 2 Fine Practical Arts/Elective Location: Bollman



Auto Collision Repair Technicians find their skills increasingly valued as more vehicles fill the roads and a greater number of traffic accidents damage these vehicles. As OEM vehicles continue to incorporate sophisticated new materials and increasingly complex design technologies in their vehicles, the collision repair industry will face an ongoing need for repair technicians. Students in FutureForward's Auto Collision Repair program will learn to assess the damage, remove and install parts, remove dents, replace sections, and paint the car body. In addition, students learn how to estimate a repair job and obtain the entrepreneurial skills to operate their own business. Collision repair and refinishing is a challenging, lucrative, and rewarding career, especially as vehicles become more diverse and high-tech in their construction. All students will have the opportunity to obtain an industry-relevant I-CAR certification. I-CAR, the Inter-Industry Conference on Auto Collision Repair, plays a major role in supplying the industry with well-trained, knowledgeable, and highly employable collision repair professionals.

Counseling Notes:

- 1. Students who complete this course may be eligible to test for I-CAR, the Inter-Industry Conference on Auto Collision Repair. This certification may be used to demonstrate competency for new graduation guidelines.
- 2. Safety glasses, shop shirt, and appropriate shoes are required.
- 3. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE AUTO COLLISION REPAIR AND REFINISHING PATHWAY:

Auto Body Shop Owner/Manager Repair Technician Aviation Paint Technician Collision Estimator Master Painter Auto Detailing Technician

Automobile Customization Prep Technician Auto Restoration Technician

AUTOMOTIVE COLLISION REPAIR AND REFINISHING 3 & 4 - (Transportation, Distribution & Logistics Pathways)



Auto Collision Repair Technicians find their skills increasingly valued as more vehicles fill the roads and a greater number of traffic accidents damage these vehicles. As OEM vehicles continue to incorporate sophisticated new materials and increasingly complex design technologies in their vehicles, the collision repair industry will face ongoing need for repair technicians.

Level 3 & 4 students in FutureForward's Auto Collision Repair program will learn auto estimating, color matching and theory, plastic repair, applying adhesives, custom painting techniques, and applying decals and pinstripes.

Counseling Notes:

- 1. Prerequisite: Completion of Automotive Collision Repair and Refinishing 1 & 2
- 2. Students that complete this course may be eligible to test for I-CAR, the Inter-Industry Conference on Auto Collision Repair. This certification may be used to demonstrate competency for new graduation guidelines.
- 3. Safety glasses, shop shirt, and appropriate shoes are required.
- 4. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE AUTO COLLISION REPAIR AND REFINISHING PATHWAY:

Auto Body Shop Owner/ManagerCollision EstimatorAutomobile CustomizationRepair TechnicianMaster PainterPrep TechnicianAviation Paint TechnicianAuto Detailing TechnicianAuto Restoration Technician

AUTOMOTIVE COLLISION REPAIR AND REFINISHING INTERNSHIP - (Transportation, Distribution & Logistics Pathways)

12

Credits: 3 Fine Practical Arts/Elective Location: Bollman

This course is designed to prepare students to enter the workforce through on-the-job training in the form of an internship. Students will have the opportunity to apply advanced automotive collision repair and refinishing skills in supervised practical experience on the job to become effective automotive technicians.

Counseling Notes:

- 1. Prerequisite: Completion of Automotive Collision Repair and Refinishing 3 & 4 and Instructor recommendation
- 2. Safety glasses, shop shirt, and appropriate shoes are required.
- 3. Students may be required to provide transportation to the job site.
- 4. Students will have to complete an individual company's pre-hiring approval process.

AUTOMOTIVE TECHNOLOGY 1 & 2 - (Transportation, Distribution & Logistics Pathways)

10, 11, 12 Credits: 2 Fine Practical Arts/Elective Location: Bollman



The Auto Technology program is National Automotive Technical Education Foundation (NATEF) certified in all eight areas. Instructors are Master ASE Certified.

Auto Technology 1 & 2 program provides great opportunities for students interested in careers related to the automotive industry. Students will gain a thorough knowledge of engine performance, electronic diagnostics, light maintenance, brakes, tires, cooling systems, chassis, drivetrains, fuel systems, steering, suspension, and electrical systems. Students will have the opportunity to obtain student ASE certifications in the automotive field.

Counseling Notes:

- 1. Students that complete this course are eligible to test for Automotive Service Excellence (ASE) certification. This certification may be used to demonstrate competency for new graduation guidelines.
- 2. Safety glasses, shop shirt, and appropriate shoes are required.
- 3. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE AUTO TECHNOLOGY PATHWAY:

Auto Shop Owner/Manager Repair Service Estimator Diesel Mechanic Small Engine Repair Master Auto Technician

AUTOMOTIVE TECHNOLOGY 3 & 4 - (Transportation, Distribution & Logistics Pathways)

11, 12 Credits: 2 Fine Practical Arts/Elective Location: Bollman



The Auto Technology program is National Automotive Technical Education Foundation (NATEF) certified in all eight areas. Instructors are Master ASE Certified. Auto Technology 3 & 4 students demonstrate a strong interest in the auto technology industry. This program is designed to provide a thorough knowledge of engine performance, advanced charging systems, advanced brakes, alignments, suspension, electrical system diagnostics, engine rebuilding, and emission testing. Students will have the opportunity to obtain student ASE certifications. It is expected that students will enroll in the AYES program.

Counseling Notes:

- 1. Prerequisite: Completion of Auto 1 & 2
- 2. Students that complete this course are eligible to test for Automotive Service Excellence (ASE) certification. This certification may be used to demonstrate competency for new graduation guidelines.
- 3. Safety glasses, shop shirt, and appropriate shoes are required.
- 4. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE AUTO TECHNOLOGY PATHWAY:

Auto Shop Owner/Manager Dealer Service Technician Diesel Mechanic Repair Service Estimator Master Auto Technician Small Engine Repair

AUTOMOTIVE TECHNOLOGY INTERNSHIP - (Transportation, Distribution & Logistics Pathways)

Credits: 3 Fine Practical Arts/Elective Location: Bollman

This course is designed to prepare students to enter the workforce through on-the-job training in the form of an internship. Students will have the opportunity to apply advanced automotive skills in supervised practical experience on the job to become effective automotive technicians.

Counseling Notes:

- 1. Prerequisite: Successful completion of Automotive Technology 3 & 4 and Instructor recommendation
- 2. Safety glasses, shop shirt or coveralls, and steel-toe shoes are required.
- Students may be required to provide transportation to the job site.
- 4. Students will have to complete an individual company's pre-hiring approval process.

DIESEL AUTOMOTIVE TECHNOLOGY 1 & 2 - (Transportation, Distribution & Logistics Pathways)

10, 11, 12 Credits: 2 Fine Practical Arts/Elective Location: Washington Square

This AED certified program is designed to train entry-level diesel technicians. Students are trained in shop safety, preventive maintenance, braking systems, suspension systems, engine theory, electrical and electronic theory, hydraulic theory, design and troubleshooting, powertrain theory, performance, operation and component rebuild. All courses will follow ASE/AED standards. Students will be working on live units with real world problems to diagnose and repair to gain the hands-on experience they need to become successful Diesel technicians. Students will have the opportunity to obtain ASE, AED, Snap-on, and EPA certifications in the automotive field.

Counseling Notes:

- 1. Safety glasses, shop shirt, and steel-toed boots are required.
- 2. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE DIESEL TECHNOLOGY PATHWAY:

Auto Shop Owner/Manager

Diesel Technician

Master Auto Technician

Repair Service Estimator

DIESEL AUTOMOTIVE TECHNOLOGY 3 & 4 - (Transportation, Distribution & Logistics Pathways)

11, 12 Credits: 2 1 Math - Math in Diesel 1 Fine Practical Arts/Elective Location: Washington Square

The Diesel Automotive Technology 3 & 4 course is designed to train diesel mechanics to enter the workforce at the apprentice level. Students will have the opportunity to obtain student ASE, Snap-on, and EPA certifications. These certifications may be used to demonstrate competency for new graduation guidelines. All courses will follow ASE standards. Students will be working on live units with real-world problems to diagnose/repair and to gain the hands-on experience they need to become successful technicians.





Students are trained in:

- Advanced Manual/Automatic Transmission
- Engine Repair and Rebuild
- Advanced Computer Diagnostic & Engine Performance – Gas and Diesel Engines
- Advanced Braking Systems
- Advanced Driveline Repair

Counseling Notes:

- 1. Prerequisite: Successful completion of Diesel 1 & 2
- 2. Safety glasses, shop shirt, and steel-toe shoes are required.
- 3. Course fee: \$40.00

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE DIESEL TECHNOLOGY PATHWAY:

Auto Shop Owner/Manager	Diesel Technician	Master Auto Technician	Repair Service Estimator
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DIESEL AUTOMOTIVE TECHNOLOGY INTERNSHIP - (Transportation, Distribution & Logistics Pathways)

12

Credist: 3 Fine Practical Arts/Elective Location: Washington Square

This course is designed to prepare students to enter the workforce through on-the-job training in the form of an internship. Students will have the opportunity to learn advanced diesel skills in supervised practical experience on the job to become effective diesel technicians.

Counseling Notes:

- 1. Prerequisite: Successful completion of Diesel 3 & 4 and Instructor recommendation
- 2. Safety glasses, shop shirt, and steel-toe shoes are required.
- 3. Students may be required to provide transportation to the job site.
- 4. Students will have to complete an individual company's pre-hiring approval process.
- 5. Course fee: \$40.00

PRINCIPLES OF CONSTRUCTION, MECHANICAL, ELECTRICAL, AND PLUMBING 1 & 2 - (Architecture & Construction Pathways)

10, 11, 12 Credit: 1 Fine Practical Arts/Elective Location: Washington Square



Principles of Construction, Mechanical, Electrical, and Plumbing prepares students for electrical, plumbing, and HVAC careers by introducing students to the physical principles of these systems and the fundamental skills needed to work with them. Upon completion of this course, proficient students will be able to follow safety procedures and use tools to perform basic operations with electrical circuits, as well as demonstrate understanding in fundamental concepts of electricity theory (i.e. Ohm's Law). Students will be able to apply proper tools and procedures to perform basic operations

- DOT Inspection Procedures
- HVAC
- Advanced Electrical Diagnostic & Repair
- Hydraulics
- Advanced Suspension & Repair

with plastic piping, including measuring, cutting, and joining. Furthermore, students will be able to apply mathematical concepts to solve HVAC, electrical, and plumbing problems.

Counseling notes:

- 1. Students that complete this course are eligible to test for OSHA 10 and PACT HBI core certification. These certifications may be used to demonstrate competency for new graduation guidelines.
- 2. Course fee: \$20.00
- 3. Supplies include:
 - a. Safety-toed shoes/boots
 - b. Safety glasses
 - c. Basic hard hat for field trip and on-the-job exercises

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE CARPENTRY PATHWAYS:

Construction Management Home Maintenance and Repair Electrician

Carpenter Interior Designer Plumber

Architect Building Inspector HVAC

Surveyor Engineering

ADVANCED PRINCIPLES OF CONSTRUCTION, MECHANICAL, ELECTRICAL, AND PLUMBING 3 & 4 -(Architecture & Construction Pathways) 11, 12 Credits: 2

1 Math - Math in Construction 1 Fine Practical Arts/Elective Location: Washington Square





Throughout the course, students will interpret construction drawings to complete projects and implement material estimating procedures and safe working practices. Standards in this course also expand on principles of the construction industry and project management strategies. Students will continue to learn practical applications of electrical theory and techniques used by licensed electricians, including exploration of OSHA's electrical safety-related work practices. Students will learn approaches to commercial building wiring in compliance with current National Electrical Code and local codes. Math concepts related to construction will be integrated throughout the course.

Students will acquire knowledge and skills in use of tools, codes, installation of commercial HVAC equipment, heat pumps, troubleshooting techniques, various duct systems, and maintenance practices. Students will acquire knowledge and skills in plumbing codes, advanced plumbing mathematics, commercial drawings, basic electricity, hanger installation, supports and structural penetrations, roof drains, fixture installation, valves and faucets, and oxy-fuel safety. Students will also learn about setup, cutting, brazing, and welding water system sizing; gas, drain, waste and vent installation and testing; and water heater installation.

Counseling notes:

- 1. Prerequisite: Successful completion of Principles of Construction, Mechanical, Electrical, and Plumbing course
- 2. No math prerequisite for this course.
- 3. Students that complete this course are eligible to test for OSHA 10 and HBI certification. These certifications may be used to demonstrate competency for new graduation guidelines.
- 4. Course fee: \$40.00

- 5. Supplies include:
 - a. Safety toed shoes/boots
 - b. Safety glasses
 - c. Basic hard hat for field trip and on-the-job exercises

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE ADVANCED PRINCIPLES OF CONSTRUCTION, MECHANICAL, ELECTRICAL, AND PLUMBING PATHWAYS:

Construction Management Home Maintenance and Repair Electrician Building Maintenance Technician

Carpenter Architect Interior Designer Building Plumber HVAC Building Maintenance Supervisor

Architect Building Inspector HVAC Surveyor Engineering Refrigeration Technician

CONSTRUCTION, MECHANICAL, ELECTRICAL, AND PLUMBING INTERNSHIP -

(Architecture & Construction Pathways) 12

Credits: 3 Fine Practical Arts/Elective Location: Washington Square

This course is designed to prepare students to enter the workforce through work-based learning in the form of an internship. Through supervised practical experiences, students will job shadow and work as an apprentice in industry trades including: carpentry, electrical, HVAC, and plumbing.

Counseling notes:

- 1. Prerequisite: Successful completion of Advanced Construction 3 & 4 and Instructor recommendation
- 2. Safety glasses, shop shirt, and steel-toe shoes are required.
- 3. Students may be required to provide transportation to the job site.
- 4. Students will have to complete an individual company's pre-hiring approval process.

WELDING TECHNOLOGY 1 & 2 - (Manufacturing Pathway)

10, 11, 12 Credits: 2 Location: Washington Square

This course will provide students with entry-level welding skills. The Welding Technology program provides training in welding safety, oxyacetylene welding and cutting, plasma arc cutting, brazing, soldering, stick welding (SMAW), and MIG welding (GMAW). Students learn to read and make weld prints and sketches. Basic fabrication skills, including the safe use of shop tools, will be learned in conjunction with class projects and personal projects.

Counseling Notes:

- 1. Students that successfully complete this course may be eligible to receive American Welding Society certification. This certification may be used to demonstrate competency for new graduation guidelines.
- 2. Course fee: \$40.00





- 3. Supplies include:
 - a. Welding helmet
 - b. Safety glasses
 - c. Welding gloves
 - d. Welding jacket
 - e. Steel-toed boots

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE WELDING PATHWAY:

Architect	Auto-Body Specialist	Engineer	Ironworker
Sheet-Metal Worker	Sculptor	Pipefitter	Machinist

WELDING TECHNOLOGY 3 & 4 - (Manufacturing Pathway) 11, 12 Credits: 2 1 Math - Math in Welding 1 Fine Practical Arts/Elective



This course is for students who have demonstrated an interest in pursuing a career as a welder. This class will provide students with advanced instruction in Welding Technology including welding safety, oxyacetylene welding/cutting, plasma arc cutting, carbon arc cutting, exothermic cutting, stick welding (SMAW), flux-cored arc welding (FCAW), MIG welding (GMAW), and TIG welding (GTAW), and pipe welding. Students will continue to master skills in print reading and other technical information. Students successfully completing Welding Technology 3 & 4 may acquire an Entry-Level Welder's Certification from the American Welding Society.

Counseling Notes:

- 1. Prerequisite: Successful completion of Welding 1 & 2
- 2. Students that complete this course may be eligible to receive American Welding Society certification. This certification may be used to demonstrate competency for new graduation guidelines.
- 3. Course fee: \$40.00

Location: Washington Square

- 4. Supplies include:
 - a. Welding helmet
 - b. Safety glasses
 - c. Welding gloves
 - d. Welding jacket
 - e. Steel-toed boots

POSSIBLE CAREER OPPORTUNITIES FOR STUDENTS IN THE WELDING PATHWAY:

Architect Sheet-Metal Worker Auto-Body Specialist Sculptor Engineer Pipefitter Ironworker Machinist

WELDING TECHNOLOGY INTERNSHIP - (Manufacturing Pathway)

This course is designed to prepare students to enter the workforce through work-based learning in the form of an internship. Through supervised practical experiences, students will job shadow and work as a welding apprentice.

Counseling Notes:

- 1. Prerequisite: Successful completion of Welding 3 & 4 and Instructor recommendation
- 2. Safety glasses, shop shirt, and steel-toe shoes are required.
- 3. Students may be required to provide transportation to the job site.
- 4. Students will have to complete an individual company's pre-hiring approval process.
- 5. Course fee: \$40.00

AFROTC

9, 10, 11, 12 Credit: 1 Fine Practical Arts/Elective Location: Westminster High School

Air Force Junior ROTC is available through a cooperative agreement with Westminster Public School. Classes are held at Westminster High School. Students are responsible for their own transportation to and from class. There is a \$35 course fee. Interested students should contact the BOLLMAN registrar at 720-972-5827 for more information, or Air Force JROTC Instructor Charles Sellers at 303-487-2460/62; csellers@wps.org or Dan Fleig at dfleig@wps.org.

This course teaches both aerospace studies and leadership/life skills education. Air Force topics include the heritage and development of the Air Force, including its structure, operations, customs, intercommunication skills, drill, and military ceremonies and courtesies. Aerospace topics include the development, history, and impact of flight; aircraft and spacecraft; the environment in which these crafts operate; science of flight, space technology and exploration; national defense systems; and knowledge of aviation, propulsion, and navigation. Global Studies curriculum is also included once every fourth year. This course may be repeated for credit.

Transportation for ROTC is NOT provided by Adams 12

ACADEMIC COURSE OFFERINGS

Students *must* be enrolled in a FutureForward career and technical program to be eligible for enrollment in FutureForward academic courses.

English 11 – American Lit/Comp	English 12 – Lit/Comp	
College English 1021 – English Composition I - (must also register for English 1022) *FRCC Guaranteed Transfer Course	College English 1022 – English Composition II - (must complete/pass English 1021) *FRCC Guaranteed Transfer Course	
CP Anatomy & Physiology		

FutureForward English and Science courses meet district graduation requirements. Please consult with your counselor to verify which courses meet the NCAA Clearinghouse requirements before making final course selections.

ENGLISH COURSES

ENGLISH 11 (American Lit/Comp)

11 Credit: 1 English

Students will understand the thematic progression of literature from the United States by studying literary texts across the 18th, 19th, and 20th centuries. They will analyze and explain authors' use of literary techniques through argumentative writing, higher-level discussions, and oral presentations. Students will flexibly use technology for both research and the presentation of information, including that required for a long-term, in-depth project. They will assess the credibility and validity of sources to answer research questions and complete long-term works, as well as write narrative, problem-solution, comparative analysis, informative, and argumentative pieces.

Major units of study include:

- Argument and Inquiry
- Thematic Development and Authorial Choices
- Rhetorical Analysis and Crafting Arguments
- Interpretation of Drama: Genre Study
- Informed Public Advocacy

Counseling Notes:

1. This course meets the district English graduation requirement

ENGLISH 12 (Lit/Comp)

12 Credit: 1 English

Students will engage in the study of literary movements to determine how various views affect the interpretation and understanding of literature. They will also understand how works of literature are influenced by the time period in which the author lived and how that influence is reflected in the work. Students will participate in a large-scale independent inquiry project where they will research, develop, and refine a multi-faceted argumentative piece and presentation.

Major units of study include:

- Self-Directed Inquiry Project
- Narrative Thematic Development
- Initiating Inquiry
- Analysis and Argument
- Application and Presentation of Research

Counseling Notes:

1. This course meets the district English graduation requirements.

COLLEGE ENGLISH 1021: Freshman Composition I

12 Credit: 1 English



Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category.

Counseling Notes:

- 1. Registration in English 1022 is also required.
- 2. This course meets the district English graduation requirements.

COLLEGE ENGLISH 1022: Freshman Composition II

12 Credit: 1 English



Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category.

Counseling Notes:

- 1. Prerequisite: Successful completion of ENG 1021
- 2. This course meets the district English graduation requirements.

SCIENCE COURSES

CP ANATOMY & PHYSIOLOGY

11, 12 Credit: 1 Science

CP Anatomy and Physiology is a course designed for students interested in learning about their body's structure and function through integrated hands-on projects and activities. Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology and explore functional systems of the body. This course is recommended for students interested in pursuing careers in medical, health, or sports medicine related fields.

Counseling Notes:

- 1. This course meets the district Science graduation requirements.
- 2. Course does not include PE credit.

Classes will only be offered if there is sufficient enrollment.