REDROCKS
COMMUNITY COLLEGE

Warren Tech Central Concurrent Enrollment Courses

Executive Internship

High School Instructor: Jennifer Herbaugh
Spring Enrollment
Prerequisites: N/A

Plan of Study:

These courses are part of the Business Associate of Applied Science Degree at Red Rocks Community College and may transfer to other colleges.

http://www.rrcc.edu/business/degrees-certificates

Earn a RRCC Certificate:

Successful completion of BUS 118 and MAR 106 earns a Workplace Readiness Certificate. This certificate blends essential information about soft skills required to be an effective employee while also providing you with insight about how to move through the culture of the business. Learning about the workplace and being prepared to enter the workplace can be worlds apart. This focused certificate gives students a blend of soft skills, theory, and practical application (with practice) to support entry or re-entry into the workforce.

Course	Description	Credits
BUS 118 *Fall/Spring Enrollment*	**Business Survival Skills** Provides an overall perspective for the student to understand the current domestic and world business environment and how the student as an employee fits into that environment. Roles and responsibilities of the business and the employees will be studied especially as they relate to alternatives for increasing positive impact in the workplace. The focus will be on practical skills application. **Prerequisites: N/A**	3
MAR 106 *Fall/Spring Enrollment*	**Marketing Your Image** Teaches students how to market themselves to prospective employers, clients, professional groups, and audiences of all types. Major emphasis will be placed on skills used to gain employment (resumes, interviewing, and professional appearance) and on skills used to achieve continued personal success	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	(professional behavior and attitude). The course will include at least one simulated interview. **Prerequisites: N/A**	
BUS 121 *Fall/Spring Enrollment*	**Basic Workplace Skills** Examines techniques for communicating effectively on the job including both verbal and written communication; identifies the roles of individuals and companies and necessary critical thinking and problem solving skills; examines relationship skills, effective self-presentation, and workplace issues such as sexual harassment, stress, and substance abuse. **Prerequisites: N/A** **Plan of Study:** These courses are part of the Business Associate of Applied Science Degree at Red Rocks Community College and may transfer to other colleges. http://www.rrcc.edu/business/degrees-certificates	1

Automotive Collision Repair

High School Instructor: James Porter
Fall and Spring Enrollment
Prerequisite: N/A

Plan of Study:

These courses are part of the Automotive Collision Technology Associate of Applied Science Degree at Red Rocks Community College and may transfer to other colleges.

http://www.rrcc.edu/Warren Tech/auto-service-collision-customization/auto-collision-technology-degrees-certificates

(In cooperation with and taught at Warren Tech) This is a Nationally Certified Auto Collision Repair program that uses the I-CAR live curriculum with the primary purpose of preparing you for careers in the auto collision industry. You can also achieve the necessary credits to obtain an associate degree. A minimum of 45 ACT credits and 15 general education credits are required for the AAS degree. Some courses may transfer to a bachelor's degree in automotive management. Students must comply with personal and environmental safety practices in accordance with local, state, and federal safety and environmental regulations.

Earn RRCC Certificates:
Coursework can be applied towards an Associate of Applied Science Degree (AAS) or the following certificates: *Auto Collision Repair, Beginning Auto Collision Non-Structure Repair and Refinish,*

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

RED ROCKS
COMMUNITY COLLEGE

	Intermediate Auto Collision Non-Structure Repair and Refinish, Advanced Auto Collision Structure Repair and Refinish, Industry Prepared Structure.	
Course	**Description**	**Credits**
ACT 101	**Introduction to Automotive Collision Tech.**	4
ACT 110	**Safety in Collision Repair**	2
ACT 111	**Metal Welding and Cutting**	2
ACT 121	**Non-Structural Repair Preparation**	3
ACT 122	**Panel Repair & Replacement**	3
ACT 123	**Metal Finishing & Body Filling**	3
ACT 124	**Exterior Panel Replacement (Weld-on)**	3
ACT 131	**Structural Damage Diagnosis**	3
ACT 132	**Structural Damage Repair**	3
ACT 141	**Refinishing Safety**	1
ACT 142	**Surface Preparation I**	2
ACT 143	**Spray Equipment Operation**	2
ACT 144	**Refinishing I**	2
ACT 151	**Plastics & Adhesives I**	1
ACT 170	**Automotive Collision Technology Lab Exp. I**	3
ACT 171	**Automotive Collision Technology Lab Exp. II**	3
ACT 172	**Automotive Collision Technology Lab Exp. III**	3
ACT 180	**Auto Collision Repair Internship Level I**	2
ACT 205	**Estimating & Shop Management**	3
ACT 211	**Metal Welding & Cutting II**	2
ACT 220	**Structural Repair II**	4
ACT 226	**Production**	4
ACT 231	**Advanced Structural Damage Diagnosis & Repair**	3
ACT 232	**Fixed Glass Repair**	2
ACT 241	**Paint Defects**	3
ACT 242	**Surface Preparation II**	2
ACT 243	**Refinishing II**	2
ACT 244	**Final Detail**	2
Automotive Customization		

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

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COMMUNITY COLLEGE

High School Instructor: Steve Erickson
Fall and Spring Enrollment
Prerequisites: N/A

Plans of Study:
These courses are part of the Auto Collision Technology Applied Science Degree at Red Rocks Community College and may transfer to other colleges.
http://www.rrcc.edu/Warren Tech/auto-service-collision-customization/automotive-customization-degree-certificates

(In cooperation with and taught at Warren Tech)
This two-year program is designed to give students basic and advanced skill training needed for successful entry into the automotive customizing and refinishing industry through theory and lab experiences.

Earn RRCC Certificates:
Coursework can be applied towards an Associate of Applied Science Degree (AAS) or the following certificates: *Automotive Customization Industry Introduction, Introduction to High-Performance Vehicles, Introduction to Custom Painting, Auto Customization and Performance, and Advanced Auto Customization and Performance (3rd year option).*

Course	Description	Credits
ACT 101	Introduction to Automotive Collision Tech.	4
ACT 110	Safety in Collision Repair	2
ACT 111	Metal Welding/Cutting	3
ACT 122	Panel Repair & Replacement	3
ACT 123	Metal Finishing/Body Filling	3
ACT 141	Refinishing Safety	1
ACT 142	Surface Prep I	2
ACT 143	Spray Equipment Operation	2
ACT 144	Refinishing I	2
ACT 160	Custom Paint	3
ACT 161	Auto Graphics & Design	3
ACT 162	Auto Air Brushing and Murals	3
ACT 163	Auto Special Effects & Refinishing	3
ACT 165	Auto Body Customizing I	3
ACT 166	Auto Body Customizing II	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

ACT 167	Auto Customizing II	3
ACT 170	Automotive Collision Technology Lab. Exp. I	3
ACT 171	Auto Collision Technical Lab Exp. II	1
ACT 172	Auto Collision Technical Lab Exp. III	3
ACT 205	Estimating and Shop Management	3
ACT 211	Metal Welding/Cutting II	2
ACT 243	Refinishing II	2
AUT 109	High Performance Suspension & Chassis Design	2
AUT 110	High Performance Suspension & Chassis Set-up	4
AUT 116	High Performance Brake Systems	2
AUT 125	Engines I	4
AUT 136	Intro to Racecar Body Fab.	2
AUT 137	Intro to Racecar Chassis Fab.	2
ASE 102	Introduction to the Automotive Shop	2
ASE 120	Basic Auto Electricity	2
ASE 130	General Engine Diagnosis	2

Automotive Technology

High School Instructor: Tom Millard
Fall and Spring Enrollment
Prerequisites: N/A

Plans of Study:

These courses are part of the Auto Technology Applied Science Degree at Red Rocks Community College and may transfer to other colleges.

http://www.rrcc.edu/Warren Tech/auto-service-collision-customization/automotive-customization-degree-certificates

(In cooperation with and taught at Warren Tech)

This two-year program is designed to give students basic and advanced skill training needed for successful entry into the automotive customizing and refinishing industry through theory and lab experiences.

Earn RRCC Certificates:

Coursework can be applied towards an Associate of Applied Science Degree (AAS) or the following certificates: *Automotive Customization Industry Introduction, Introduction to High-Performance*

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

Vehicles, Introduction to Custom Painting, Auto Customization and Performance, and Advanced Auto Customization and Performance (3rd year option).

Course	Description	Credits
ASE 101	Auto Shop Orientation	2
ASE 102	Intro to Auto Shop	2
ASE 111	Automotive Brake Service II	2
ASE 210	Automotive Power and ABS Brake Systems	2
ASE 140	Suspension and Steering I	2
ASE 141	Suspension and Steering II	2
ASE 240	Suspension and Steering III	2
ASE 264	Introduction to Automotive Heating & AC	1
ASE 265	Automotive Heating and Air Conditioning	4
ASE 150	Manual Drive Train and Axle Maintenance	2
ASE 151	Automotive Manual Transmission/Transaxles & Clutches	2
ASE 152	Manual Transmission, Transaxles and Clutches II	2
ASE 153	Automotive Drive Axle Overhaul	1
ASE 154	Manual Trans/Axle Diagnosis and Repair	1
ASE 250	Auto Trans/Transaxle Service	1
ASE 251	Auto Trans/Transaxle Diagnosis	3
ASE 252	Advanced Automatic Trans/Transaxles	2
ASE 130	General Engine Diagnosis	2
ASE 134	Automotive Fuel and Emissions Systems I	2
ASE 231	Computers & Ignition Systems	2
ASE 233	Fuel Injection/ Exhaust	4
ASE 235	Drivability and Diagnosis	2
ASE 110	Brakes I	3
ASE 120	Basic Automotive Electricity	2
ASE 122	Automotive Electricity Safety Systems	1
ASE 123	Starting and Charging Systems	2
ASE 221	Automotive Body Electrical	4
ASE 161	Engine Repair and Rebuild	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

ASE 162	Automotive Engine Service	2
ASE 201	Automotive Parts Management I	1
ASE 203	Automotive Parts Management II	1
ASE 171	Lab Experience II	1

Culinary Arts High School

Instructor: David Bochmann
Spring Enrollment
Prerequisites: N/A

Plans of Study:
These courses are part of the Culinary Arts Associate of Applied Science Degree/Certificate at Red Rocks Community College and may transfer to other colleges.
www.rrcc.edu/culinary/degree-and-certificate

Earn a RRCC Certificate:
Successful completion of all the three courses will lead to an *Introduction to Culinary Arts Certificate.*

Course	Description	Credits
CUA 101 *Spring Enrollment*	**Food Safety and Sanitation** Covers the basic rules of sanitation, food-borne illnesses, safe food temperatures, safe food-handling techniques, the HACCP Program, pest control procedures, and local/state health rules and regulations for food service operations. At the completion of the course, students will take a nationally recognized test from the Education Foundation of the National Restaurant Association. If passed with a score of 75% or more, the student will receive a Certificate of Completion from the Education Foundation.	2
CUA 121 *Spring Enrollment*	**Introduction to Food Production Principles and Practices** Provides students with the fundamental principles of commercial kitchen operations, including safety and sanitation applications, use and care of equipment, tools, utensils and knives, recipe use and conversion, organization of work, and basic cooking methods.	1
CUA 156 *Spring Enrollment*	**Nutrition for the Hospitality Professional** **High School Instructor: Joshua Olsen (pending approval)** Provides students with the fundamentals of human nutrition. It focuses on the nutritional needs of humans throughout their life cycle as well as those with special dietary needs. Students may take a nationally recognized test	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	from the Educational Foundation of the National Restaurant Association. **Prerequisite: N/A**	
CUA 157 *Spring Enrollment*	**Menu Planning** Introduces students to Planning menus and integrating them into foodservice operations. Equips the student with a working knowledge of the function, mechanics, and results achieved by the menu, providing an overview of the existing and growing food service industry as seen through the menu.	3

Cosmetology: Hairstyling

High School Instructor: Christina Mathias
Fall and Spring Enrollment
Prerequisite: N/A

Plans of Study:
These courses are part of the Cosmetology Associate of Applied Science Degree at Red Rocks Community College.

http://www.rrcc.edu/Warren Tech/cosmetology

(In cooperation with and taught at Warren Tech)
The Cosmetology Program is designed to develop the skills necessary for entry-level employment in areas of hairstylist, esthetics (esthetician-skin care), and nail technology (manicurist). Coursework can be applied towards an Associate of Applied Science Degree (AAS) or certificate.

Earn a RRCC Certificate:
Successful completion of all courses earns a Hairstyling Certificate. The Hairstyling Certificate is designed to develop the skills necessary for entry-level employment as a hairstylist.

Course	Title	Credits
COS 103	**Shampoo/Rinses/Conditioners I**	1
COS 130	**Intro to Hair Styling**	2
COS 120	**Intro to Haircutting**	2
COS 140	**Intro to Chemical Texture**	1
COS 110	**Intro to Hair Coloring**	2
COS 160	**Intro to Disinfection, Sanitation and Safety**	2
COS 250	**Management, Ethics, Interpersonal Skills & Sales**	1
COS 150	**Laws, Rules and Regulations**	1

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

COS 131	Intermediate I: Hair Styling	2
COS 121	Intermediate I: Hair Cutting	2
COS 141	Intermediate I: Chemical Texture	1
COS 203	Shampoo/Rinses/Conditioners II	1
COS 111	Intermediate I: Hair Coloring	2
COS 161	Intermediate I: Disinfection, Sanitation & Safety	1
COS 230	Intermediate II: Hair Styling	2
COS 220	Intermediate II: Hair Cutting	2
COS 240	Intermediate II: Chemical Texture	1
COS 210	Intermediate II: Hair Coloring	2
COS 260	Intermediate II: Disinfection, Sanitation & Safety	2
COS 231	Advanced Hair Styling	1
COS 211	Advanced Hair Coloring	2
COS 241	Advanced Chemical Texture	1
COS 221	Advanced Hair Cutting	2
COS 261	Advanced Disinfection, Sanitation and Safety	1
COS 262	Advanced II: Disinfection, Sanitation and Safety	3

Cosmetology: Esthetics

High School Instructor: Vicki Flower
Spring Enrollment
Prerequisite: N/A

Plans of Study:

These courses are part of the Cosmetology Associate of Applied Science Degree at Red Rocks Community College.

http://www.rrcc.edu/Warren Tech/cosmetology

(In cooperation with and taught at Warren Tech)
The Cosmetology Program is designed to develop the skills necessary for entry-level employment in areas of hairstylist, esthetics (esthetician-skin care), and nail technology (manicurist). Coursework can be applied towards an Associate of Applied Science Degree (AAS) or certificate.

Earn a RRCC Certificate:
Successful completion of all courses earns an Esthetician Certificate. The Esthetician Certificate (Esthetics-skin care) is designed to develop the skills necessary for entry-level employment as an esthetician.

Course	Description	Credits

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

EST 110	Introduction to Facials and Skin Care	3
EST 111	Intermediate Facials and Skin Care	2
EST 160	Introduction to Disinfection, Sanitation & Safety	2
EST 161	Intermediate Disinfection, Sanitation and Safety	3
EST 210	Advanced Skin Care and Massage	2
EST 211	Facial Make-Up	1
EST 212	Hair Removal	3
EST 260	Advanced Disinfecting, Sanitation and Safety	2
COS 150	Laws, Rules and Regulations	1
COS 250	Management, Ethics, Interpersonal Skills & Salesmanship	1

Cosmetology: Nail Technology

High School Instructor: Michelle Montoya
Spring Enrollment
Prerequisite: N/A

Plans of Study:
These courses are part of the Cosmetology Associate of Applied Science Degree at Red Rocks Community College.

www.rrcc.edu/Warren Tech/cosmetology

(In cooperation with and taught at Warren Tech)
The Cosmetology Program is designed to develop the skills necessary for entry-level employment in areas of hairstylist, esthetics (esthetician-skin care), and nail technology (manicurist).

Earn a RRCC Certificate:
Successful completion of all courses earns a Manicurist Certificate:
This Manicurist Certificate is designed to develop the skills necessary for entry-level employment as a manicurist.

Course	Description	Credits
COS 150	Laws, Rules and Regulations	1
COS 160	Intro to Disinfection, Sanitation and Safety	2
COS 161	Intermediate I: Disinfection, Sanitation & Safety	1
COS 250	Management, Ethics, Interpersonal Skills & Salesmanship	1
COS 260	Intermediate II: Disinfection, Sanitation & Safety	2
NAT 110	Introduction to Manicures and Pedicures	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

NAT 111	Intermediate Manicures and Pedicures	2
NAT 210	Advanced Manicures and Pedicures	2
COS 261	Advanced Disinfection, Sanitation/Safety	1
NAT 211	Application of Artificial Nails	5

Fire Science/First Responder

High School Instructor: Matt Beckett
Spring Enrollment

Coursework completed with a grade of C or better may be applied towards the Fire Science Associate of Applied Science Degree or certificate. This program of study is designed for students new to or preparing for the fire service. Students must earn a C or higher in all fire science and general education courses to graduate.

Plans of Study:
These courses are part of the Fire Science Technology Associate of Applied Science Degree at Red Rocks Community College and may transfer to other colleges

http://www.rrcc.edu/fire-science/fire-fighter-one-academy

Course	Description	Credits
FST 102	**Principles of Emergency Services** Introduces the fire service organization and operation from past to present operations. It includes operation and organization of federal, state, local and private protection forces. The course emphasizes extinguishing methods and equipment, special extinguishing agents, and special hazard considerations. It serves as a prerequisite for students with no previous fire suppression training or experience. **Prerequisites:** **ACT: English 18** **SAT: Verbal 470** **Accuplacer: Sentence Skills 95 or higher** **High School Class Exemption:** 3.0 un-weighted high school GPA and passed H.S. English 11 or 12 with a B or better in past 18 months.	3
FST 160	**Candidate Physical Abilities Test Prep Course**	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	Prepares students for the job of a firefighter as well as the testing requirements to test for CPAT. The tools for all classes will be fire service tools, such as, sledge hammer, hose, nozzle, ladders, pike pole, power saws, and rescue dummy. The course will include the basic fire skills of rescue, hose lay, equipment movement, ladder raise and extend, forcible entry, search, and ceiling breach. This course also includes aerobic and strength training to assist student with passing CPAT. **Prerequisite: N/A**	
EMS 115	**First Responder** Provides you 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. **Prerequisite: N/A**	3

Precision Machining

High School Instructor: Joe Martin
Fall and Spring Enrollment
Prerequisite: N/A

Plans of Study:
These courses are part of the Precision Machining Associate of Applied Science Degree at Red Rocks Community College and may transfer to other colleges.

http://www.rrcc.edu/precision-machining

(In cooperation with and taught at Warren Tech)
This program is designed to develop the skills necessary for entry-level employment in the machining industry. Entry-level skills in fabrication and plastic parts that meet industrial standards will be taught.

Earn RRCC Certificates:
Coursework can be applied towards an Associate of Applied Science Degree (AAS) or the following certificates: *Machine Shop Fundamentals, CNC Lathe Machine Operator, Manual Machine Operator or CNC Mill Operator.*

Course	Description	Credits
MAC 110	**Intro to Engine Lathe**	3
MAC 111	**Intermediate Engine Lathe**	3
MAC 120	**Introduction to Milling Machine**	3
MAC 121	**Intermediate Milling Machine**	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

MAC 201	Intro to CNC Turning Operations	3
MAC 205	Intro to CNC Milling Operations	3
MAC 250	Advanced Inspection Techniques	3
MAC 253	Wire 1	3
MAC 257	Wire 2	3
MAC 210	Swiss 1	3
MAC 211	Swiss 2	3
MAC 261	5 Axis 1	3
MAC 260	5 Axis 2	3
MAC 266	QC II	3
MAC 267	Metrology	3
MAC 202	CNC Turning Operations II	3
MAC 206	CNC Milling Operations II	3
MAC 245	CAD/CAM 3D	3
EGT 205	Geometric Dimensioning and Tolerance	3

TV/Video Production

High School Instructor: Jon White
Spring Enrollment
Prerequisites: N/A

Plans of Study:
These courses are part of the Multimedia Graphic Design Associate of Applied Science Degrees at Red Rocks Community College and may transfer to other colleges.

www.rrcc.edu/multimedia/degrees-and-certificates

Coursework completed with a grade of C or better may be applied towards a variety of Multimedia Graphic Design Associate of Applied Science (AAS) degrees and certificates, such as the Video Production AAS Degree.

Earn a RRCC Certificate:
Successful completion of MGD 104 and MGD 204 earns a Camera Operator Certificate:
You will learn the basics of camera operation as it applies to video production for success as an independent business or to become an important asset to someone else's business.

Course	Description	Credits
MGD 101	Introduction to Computer Graphics	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	Introduces computer systems developed for graphics. You will learn hardware and software components used in multimedia production and explore basic computer operations, file management, scanning techniques, archiving capabilities, and utilization of the multimedia department server and Internet connection.	
MGD 104	**Videography I** Introduces to the principles and techniques of video production, including camera operation, basic script writing, lighting, basic sound, and basic digital editing. Examination of pre-production, production, and post-production processes, as well as aesthetics, are included.	3
MGD 164	**Digital Video Editing: Apple Final Cut Studio** Introduces digital, non-linear video editing. You will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control, transitions and filters, and special effects are explored. This software is available only for the Mac Platform.	3
MGD 165	**Adobe After Effects I** Provides fundamental techniques for creating digital motion graphics, 2D animation, animated logos, video graphics, etc. This class covers relevant tools and techniques as well as industry standards, delivery methods, and output formats.	3
MGD 204	**Videography II** Offers advanced study of digital video imaging concepts using digital cameras. Heavy emphasis is placed upon media aesthetics and the creative integration of sight, sound, and motion in student projects.	3

Graphic Design

High School Instructor: Peter Cunis & Scot Odendahl
Spring Enrollment
Prerequisites: N/A

Plans of Study:
These courses are part of the Multimedia Graphic Design Associate of Applied Science Degrees at Red Rocks Community College and may transfer to other colleges.
www.rrcc.edu/multimedia/degrees-and-certificates

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

Coursework completed with a grade of C or better may be applied towards a variety of Multimedia Graphic Design Associate of Applied Science (AAS) degrees and certificates.

Earn a RRCC Certificate:

Successful completion of MGD 112 and MGD 114 earns an Introduction to Multimedia Certificate: The Introduction to Graphic Design certificate introduces the basic skills for printing, graphic design, and prepress production. This is the starting coursework towards learning graphic design and can be applied to the larger graphic design/print production certificate and degree.

Course	Description	Credits
MGD 101	**Intro to Graphic Design** Introduces computer systems developed for graphics. You will learn hardware and software components used in multimedia production and explore basic computer operations, file management, scanning techniques, archiving capabilities, and utilization of the multimedia department server and Internet connection.	3
MGD 111	**Adobe Photoshop I** Concentrates on the high-end capabilities of Adobe's industry standard photo-editing software as an illustration, design, and photo retouching tool. You will explore a wide range of selection and manipulation techniques applied to photos, graphics, and videos. Design concepts also are explored in this class. *Recommended Prerequisite: MGD 101 or MGD 102 and basic computer skills.*	3
MGD 112	**Adobe Illustrator I** Acquaints you with the industry standard vector drawing program. You will learn to use vector-based tools to create digital artwork used in Web design, print media, and digital screen design. Design concepts also are explored in this class. *Recommended Prerequisites: MGD 101 or MGD 102 and basic computer skills.*	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

Course	Description	Credits
MGD 114	**Adobe InDesign** Introduces you to InDesign, an industry standard page layout program which integrates seamlessly with other Adobe Creative Suite programs. InDesign delivers creative freedom and productivity to page layout and production. Class discussions and independent projects supplement hands-on classroom work.	3

Welding

High School Instructor: Tom Kienbaum
Fall and spring enrollment
Prerequisite: N/A

Plans of Study:
These courses are part of the Welding Associate of Applied Science Degree at Red Rocks Community College and may transfer to other colleges.
www.rrcc.edu/Warren Tech/welding

(In cooperation with and taught at Warren Tech) This program is designed to develop the skills necessary for entry-level employment in the welding industry. Entry-level welder certification from the American Welding Society may be earned upon completion of the program.

Earn a RRCC Certificate:
Coursework will be applied towards an Associate of Applied (AAS) degree or certificates: *Ox-Fuel Welding and Cutting, Shield Metal Arc Welding, Gas Metal Arc Welding, Flux Core Arc Welding, or Gas Tungsten Arc Welding).*

Course	Description	Credits
WEL 100	**Safety for Welders** Covers the hazards of welding on health and safety, locating essential safety information from a code or other standard, and identifying and applying shop safety procedures.	1
WEL 101	**Allied Cutting Process** Covers setting up equipment and performing cutting and gouging operations utilizing the oxyacetylene, air carbon arc, and plasma arc cutting	4

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	processes. This course will also provide an introduction to blueprint reading.	
WEL 102	**Oxyacetylene Joining Processes** Introduces safety inspections, minor repairs, operating parameters, oxyacetylene welding equipment, and oxyacetylene welding, brazing, and soldering operations. Blueprint reading skills will be practiced in this course.	4
WEL 103	**Basic Shielded Metal Arc Welding** Covers performing safety inspections, making minor repairs, adjusting operating parameters, and operating SMAW equipment utilizing E-6010 and E-7018 electrodes. Layout procedures and practices will also be introduced.	4
WEL 110	**Advanced Shielded Metal Arc Welding** Covers safety inspections, minor repairs, operating parameters, operation of SMAW equipment, and SMAW operations on groove and fillet welds utilizing E-6010 and E-7018 electrodes. Layout procedures will be practiced during this course.	4
WEL 124	**Intro to Gas Tungsten Arc Welding** Covers welding in all positions and on various joint configurations using the GTAW (tig) welding process on carbon steel, stainless steel and aluminum. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.	4
WEL 201	**Gas Metal Arc Welding I** Covers safety inspections, minor repairs, operating parameters, operation of GMAW equipment on plain carbon steel utilizing short circuit and spray transfer, and fundamental metallurgy principles.	4
WEL 202	**Gas Metal Arc Welding II** Covers safety inspections, minor repairs, operating parameters, operation of GMAW equipment utilizing a variety of electrodes and base metals, and fundamental principles of welding metallurgy to welding, fabrication, and inspection.	4
WEL 203	**Flux Cored Arc Welding I**	4

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	Covers safety inspections, minor repairs, operating parameters, operation of FCAW equipment utilizing self-shielded wire, and principles of joint design, preparation, and material selection to welding operations.	
WEL 204	**Flux Cored Arc Welding II** Covers safety inspections, minor repairs, operating parameters, operating FCAW equipment utilizing gas shielded wire, and applying fundamentals of welding applications and cost estimating to welding, fabrication, and inspection.	4
WEL 224	**Advanced Gas Tungsten Arc Welding** Covers welding in all positions on carbon steel, stainless steel and aluminum plate and carbon steel pipe with the GTAW process. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.	4
WEL 250	**Layout and Fabrication** Develops welding and associated skills in the use of drawings and blueprints in planning. Includes designing and layout projects.	4

S²TEM: X-TREME Engineering

High School Instructors: Nate Olsen & Matthew Brown (Lakewood HS)
Fall and spring enrollment
Prerequisites: N/A

Plans of Study:
These courses are part of the Engineering Graphics Technology Associate of Applied Science
Degree at Red Rocks Community College and may transfer to other colleges.
www.rrcc.edu/engineering-graphics-technology

Earn RRCC Certificates:
Coursework completed may be applied toward RRCC Engineering Graphics Technology Associate of Applied Science (AAS) Degrees or the following certificates: *Intro to Auto CAD or Engineering Graphics Mechanical.*

Course	Description	Credits
CAD 101	**Computer Aided Drafting I** Focuses on basic computer-aided drafting skills using the latest release of CAD software. The course includes file management, Cartesian coordinate system, drawing set-ups, drawing aids, layer usage, drawing geometric	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	shapes, editing objects, array, text applications, basic dimensioning, and Help access.	
CAD 102	**Computer Aided Drafting II** Focuses on advanced computer aided drafting skills using the latest release of CAD software. Includes blocks and wblocks, polylines, multilines, polyline editing, advanced editing, editing with grips, hatching, isometric drawings, dimensions and dimension variables, paper space and viewports, templates, external references, and printing/plotting.	3
AEC 101	**Basic Architectural Drafting** Introduces the student to basic architectural drafting techniques. Topics explored in lecture and through project work include: use of instruments, geometric construction, multiview, oblique and isometric projections, and basic construction drawings.	4
AEC 102	**Residential Construction Draw** Introduces the student to basic architectural drafting techniques. Topics explored in lecture and through project work include: use of instruments, geometric construction, multiview, oblique and isometric projections, and basic construction drawings.	4
CAD 202	**Computer Aided Drafting 3D** Focuses on construction of three-dimensional objects using the latest release of CAD software. Includes mesh modeling, surface modeling, solid modeling, extrusions, Boolean operations, 3D editing, 3D views, rendering, materials and advanced lighting, walkthrough and flyby animations and 3D Solids to 2D Layouts.	3
CAD 224	**Revit Architecture** Introduces students to the AutoDesk Revit Architecture software. Examines the Building Information Modeling approach to 2D and 3D architectural construction documents. Covers the creation of floorplans, elevations, sections, 3D models, perspective Renderings and Walkthroughs with this software application.	3
CAD 256	**SolidWorks Basics** Examines the basics of SolidWorks software to produce parametric models.	6
CAD 262	**3D Printing**	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	Provides the student with the ability to blend the virtual and real design worlds together through the use of 3D Scanning, 3D CAD Modeling, and 3D Printing.	

Power Equipment and Motorcycle Technology

High School Instructor: Ed Baumgard
Fall and Spring Enrollment
Prerequisite: N/A

Plans of Study:

These courses are part of the Power Equipment & Sports Vehicle Tech Associate of Applied Science Degree at Red Rocks Community College and may transfer to other colleges.

www.rrcc.edu/Warren Tech/power-equipment-sport-vehicle-technology

(In cooperation with and taught at Warren Tech)
This two-year program is designed to provide students with the basic and advanced skill training as needed for successful entry to the power and sport vehicle industry.

Earn RRCC Certificates:

Coursework can be applied towards an Associate of Applied Science (AAS) degree or the following certificates: *Power Equipment Maintenance Technician or Sports Vehicle Maintenance Technician.*

Course	Description	Credits
PVT 100	Intro to Power Vehicle Safety	2
PVT 105	PV Preventive Maintenance	2
PVT 110	PV Electrical Systems	4
PVT 120	PV Engine Repair	4
PVT 130	PV Hydraulics	4
PVT 140	PV Fuel and Emissions	4
PVT 150	PV Diesel Engines	4
PVT 210	PV Advanced Engine Systems	4
PVT 220	PV Advanced Engine Repair	4
PVT 230	PV Drive Systems	4
PVT 235	PV Brakes and Suspension	4
PVT 240	PV Advanced Fuel and Emissions	4
PVT 250	PC General Service	4

Dental Assisting

High School Instructor: Cindee Ball

Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

Fall and spring enrollment

Prerequisites:
ACT: English 18
SAT: Reading/Writing 470
Accuplacer: Sentence Skills 95 or higher
High School Class Exemption: 3.0 un-weighted high school GPA and passed H.S. English 11 or 12 with a B or better in both semesters.

Plans of Study:

This course is a part of the Dental Assistant Certificate at Red Rocks Community College and may transfer to other colleges.

http://www.rrcc.edu/Warren Tech/dental-assisting

(In cooperation with and taught at Warren Tech) Concurrent Enrollment students can earn college credit for the following courses. Skills learned include dental anatomy, dental procedures, laboratory techniques, X-Ray Techniques, patient care, chair-side techniques and sterilization and disinfection and prepare the student for the workforce.

Earn a RRCC Certificate:

Successful completion of all courses (optional not included) earns a Dental Assisting Certificate. This one year dental assisting program teaches students to work directly with patients to make them comfortable and assist the dentist during various procedures.

Course	Description	Credits
DEA 101 *Fall Enrollment*	**Dental Terminology**	1
DEA 102 *Fall Enrollment*	**Principles of Clinical Practice** Includes techniques used in four handed dentistry, instrument identification, and armamentarium for tray set-ups. Covers sterilization and aseptic procedures.	3
DEA 104 *Fall Enrollment*	**Specialties in Dentistry** Focuses on armamentarium of specific tray set-ups for periodontics, endodontics, and fixed and removable prosthodontics. Examines pediatric dentistry, oral surgery, and implants. Includes diagnosis, treatment, and the dental assistant's role in each specialty.	2
DEA 120 *Fall Enrollment*	**Intro to Dental Practice** Includes roles and responsibilities of the dental health team; educational background for the various specialties, including general practitioner,	1

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	hygienist, and dental assistant; history; legal implications; ethical responsibilities; and the role of professional organizations.	
DEA 121 *Fall Enrollment*	**Dental Science I** Includes fundamentals of the oral structures as they apply oral histology, embryology, morphology, pathology, dental anatomy, and dental charting.	3
DEA 122 *Fall Enrollment*	**Dental Science II** Includes survey of human anatomy and physiology, the structure of the head and neck as applied to dental assisting, the function of the maxilla and mandible, processes, foramen, sutures, and major nerve and blood supply.	3
DEA 123 *Spring Enrollment*	**Dental Materials I** Includes fundamentals of dental materials as they apply to clinical and laboratory applications.	3
DEA 125 *Spring Enrollment*	**Dental Radiography** Focuses on the science of radiography, the application of radiographic techniques, and aseptic techniques.	3
DEA 126 *Fall Enrollment*	**Infection Control** Includes basic information concerning infection and disease transmission in the dental office. Emphasizes knowledge of microorganisms, with an emphasis on aseptic techniques, sterilization, and hazardous communication management.	3
DEA 131 *Spring Enrollment*	**Advanced Dental Radiography** Includes theory and techniques of exposing intra-oral and extra-oral radiographs on adults, children, edentulous, and special needs patients. Covers dental anatomy radiographic interpretation and aseptic techniques. Enables the student to expose radiographs on the x-ray mannequin and patients. Students must be a minimum of eighteen years of age.	3
DEA 132 *Spring Enrollment*	**Medical Emergencies in the Dental Office** Includes techniques for taking and reading vital signs. Emphasizes recognition, prevention, and management of medical emergency situations in the dental office. Covers completing and updating patient health history. Addresses pharmacology.	2
DEA 134 *Spring Enrollment*	**Prevention and Nutrition in Dentistry** Includes techniques in preventive dentistry, with an emphasis on fluoride application and oral home-care instruction. Includes nutrition as it applies	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	to dental health and diet counseling. Covers techniques for coronal polishing.	
DEA 181 *Spring Enrollment*	**Clinical Internship I** Includes the opportunity for clinical application of dental assisting techniques in a dental office or clinical setting as part of the American Dental Association's requirement of 300 clinical internship hours.	2
DEA 182 *Optional Spring Enrollment*	**Clinical Internship I (Optional)**	1

Outdoor Leadership

High School Instructor: Peter Nelson
Spring Enrollment
Prerequisites: N/A

Plans of Study:
These courses are part of the Introduction to Outdoor Education Certificate at Red Rocks Community College and may transfer to other colleges.

www.rrcc.edu/outdoor-education/degree-and-certificate

The Outdoor Education program provides a well-rounded outdoor education experience and a high degree of training specific to employment within the outdoor industry. Warren Tech students who successfully complete the courses listed below will receive the Outdoor Education Certificate or can apply the credits earned towards an Associate of Applied Science Degree in Outdoor Education.

Earn a RRCC Certificate:
Successful completion of all courses (excluding OUT 136) earns an *Introduction to Outdoor Education Certificate.*

Course	Description	Credits
HWE 121	**Wilderness First Aid** Provides limited medical information to cope with basic wilderness emergencies.	2
PRA 218	**Outdoor Leadership**	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	Enables the student to develop, acquire and apply outdoor leadership skills and knowledge. Exposes students to the latest information, philosophy, and techniques necessary to safely conduct outdoor programs and expeditions as an outdoor leader. Skills are applied under actual field conditions. Emphasizes minimum impact camping, wilderness ecology, judgment, decision making, group dynamics, and trip logistics. These skills enhance the effectiveness of the student as a professional outdoor leader.	
OUT 134	**Wilderness Ethics** Emphasizes the motivation, aesthetics, and ethics of wilderness. Viewpoints to be examined include Native American, Western, historic, and those of modern environmental writers.	2
OUT 143	**Backpacking** Provides skills related to wilderness travel and outdoor adventure. This course will emphasize knowledge of backpacking skills, survival techniques, proper physical conditioning, route finding, equipment selection, and will encourage an understanding and respect for the environment. The course will involve lecture and discussion sessions followed by a weekend trip in the mountains.	2
OUT 144	**Backcountry Cooking** Covers menu planning, nutritional requirements for wilderness camping, and meal preparations. This course includes cooking a backcountry meal.	1
OUT 107	**Orienteering and Route Finding** Combines the topics of using different topographical maps and compasses in order to safely plan a route in the wilderness with orienteering (organized competitive cross-country land navigation). Orienteering rules, symbols, clues, and clubs will also be addressed. Field trips may include student participation in a scheduled orienteering meet.	2
OUT 108	**Wilderness Survival Skills**	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	Emphasizes the physiological, psychological, and practical principles of survival. Survival equipment, wilderness improvising techniques, and wilderness dangers are included.	
OUT 131	**Rock Climbing I** Designed to introduce basic rock climbing and to improve dexterity, problem-solving skills, and the physical work capacity of an individual. The primary emphasis will be to gain an understanding of the general principles of climbing, how to equipment works and how it is used, basic climbing skills and techniques, and safety and climbing etiquette and terminology.	2
OUT 136 *April enrollment*	**Leave No Trace Trainer Certification** Introduces the student to the concepts of Leave No Trace and prepares students to teach Leave No Trace curriculum in a variety of settings-schools, camps, parks, wilderness and front country areas. Anyone attending this training will be considered a Leave No Trace Trainer at the national level with the Leave No Trace Center for Outdoor Ethics. Becoming a Leave No Trace Trainer enables each student to successfully conduct awareness workshops to their clients, friends, family and scouting badge worships. Is a must for guides, outfitters, outdoor educators, agency employees, scout/youth group leaders, or anyone who cares about minimizing impact on the Colorado back country. This class is a great outdoor resume enhancer.	2
OUT 216	**Challenge Course Facilitation** Provides approaches to challenge course management including construction and maintenance of high and low elements, facilitation and group dynamics, risk management and safety, and challenge course philosophies.	2
OUT 112	**Mountain Orientation**	2

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

	A concentrated field experience in the Colorado mountain environment is provided in this course. Emphasis is on backpacking skills, safety procedures, ecology, geology, geography and group dynamics.	
OUT 113	**Desert Orientation** A concentrated field experience in a desert environment is provided in this course. Emphasis is on procedures for group travel and camping, ecology, geography and safety.	2
OUT 115	**Snow Orientation** A concentrated field experience in snow covered terrain and winter mountaineering is provided. Emphasis is on orienteering, natural shelter construction, site selection and survival first aid.	2
OUT 126	**Mountain Biking** Designed to introduce basic mountain biking skills and techniques. The primary emphasis is to gain an understanding of the basic principles of mountain biking. Students will develop skills and techniques for all riding situations and review bicycle anatomy and basic maintenance and repairs.	1
OUT 135	**Risk Management for Outdoor Professionals** Introduces risk management in the outdoor environment. Students will gain a better understanding of the inherent risks associated with various outdoor activities. They will learn how to analyze and minimize those risks, how to establish emergency protocols to react to those risks, and how to take the proper steps to resolve the consequences from those risks. After learning to identify, assess and reduce the risk, students will write a risk management plan specific to their area of interest. This course will cover outdoor leadership skills and delve into backcountry emergency situations and scenarios.	1

Cybersecurity

Instructor: Bill Heldman
Spring enrollment
Prerequisites: N/A

Plans of study:

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

RED ROCKS
COMMUNITY COLLEGE

	These courses are part of the Computer Information Systems Associate of Applied Science Degree at Red Rocks Community College and may transfer to other colleges. http://www.rrcc.edu/computer-technology/degrees-and-certificates	
Course	**Description**	**Credits**
CSC 119	**Intro to Programming** Emphasizes the design and implementation of structured and logically correct programs with good documentation. The course focuses on basic programming concepts, including numbering systems, control structures, modularization, and data processing. A structured programming language will be used to implement program designs.	3
CNG 121	**Computer Tech I: A+** Introduces personal computer hardware to gain the skills and knowledge for a successful entry-level computer service technician. This course provides extensive hands-on work with computer systems. It includes PC setup and configuration, floppy and hard drive installation, and basic maintenance and troubleshooting. Successful completion prepares students for the core hardware service technician portion of the CompTIA A+ Certification Exam.	4
CNG 122	**Computer Tech II: A+** Focuses on operating systems as well as installation of modems, tape backups, CD-ROM drives, and SCSI subsystems. This course covers operating systems, Windows 9x, Windows NT and Windows 2000 installation, configuration, and upgrading. It includes laser printers and backup power systems. This course prepares students for the CompTIA A+ OS Technologies Exam.	4
CNG 124	**Networking I** Provides students with the knowledge necessary to understand, identify, and perform necessary tasks involved in supporting a network. This course covers the vendor-independent networking skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP. This course also prepares students for the Networking II: Network course.	3
CNG 125	**Networking II**	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

Continues to provide students with the knowledge necessary to implement and support a network. This course focuses on the vendor-independent networking skills and concepts that affect all aspects of networking. The Networking I and II: Network + courses prepare students for the Network + certification.		
CNG 132	**Network Security Fundamentals** Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.	3
CNG 211	**Windows Configuration** Provides students with the knowledge and skills necessary to address the implementation and desktop support needs of customers who are planning to deploy and support Microsoft Windows client operating system in a variety of network operating system environments.	3

Computer Science

Instructor: Bill Heldman
Spring enrollment
Prerequisites: N/A

Plans of study:
These courses are part of the Computer Information Systems Associate of Applied Science Degree at Red Rocks Community College and may transfer to other colleges.
http://www.rrcc.edu/computer-technology/degrees-and-certificates

Earn a RRCC Certificate:
Successful completion of all courses earns a *Computer Support Technician Certificate*.
This area of emphasis provides both hardware and Windows operating systems experience needed to work as a PC support and repair person. It also exposes the student to the basic fundamentals of networking and IT security. The student will also be prepared to take the A+ certification exams.

Course	**Description**	**Credits**

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

CSC 119	**Intro to Programming**	3
	Emphasizes the design and implementation of structured and logically correct programs with good documentation. The course focuses on basic programming concepts, including numbering systems, control structures, modularization, and data processing. A structured programming language will be used to implement program designs.	
CNG 121	**Computer Tech I: A+**	4
	Introduces personal computer hardware to gain the skills and knowledge for a successful entry-level computer service technician. This course provides extensive hands-on work with computer systems. It includes PC setup and configuration, floppy and hard drive installation, and basic maintenance and troubleshooting. Successful completion prepares students for the core hardware service technician portion of the CompTIA A+ Certification Exam.	
CNG 122	**Computer Tech II: A+**	4
	Focuses on operating systems as well as installation of modems, tape backups, CD-ROM drives, and SCSI subsystems. This course covers operating systems, Windows 9x, Windows NT and Windows 2000 installation, configuration, and upgrading. It includes laser printers and backup power systems. This course prepares students for the CompTIA A+ OS Technologies Exam.	
CNG 124	**Networking I**	3
	Provides students with the knowledge necessary to understand, identify, and perform necessary tasks involved in supporting a network. This course covers the vendor-independent networking skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP. This course also prepares students for the Networking II: Network course.	
CNG 125	**Networking II**	3
	Continues to provide students with the knowledge necessary to implement and support a network. This course focuses on the vendor-independent networking skills and concepts that affect all aspects of networking. The Networking I and II: Network + courses prepare students for the Network + certification.	

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.

CNG 211	**Windows Configuration** Provides students with the knowledge and skills necessary to address the implementation and desktop support needs of customers who are planning to deploy and support Microsoft Windows client operating system in a variety of network operating system environments.	3
CNG 280 *Fall Enrollment*	**Internship** Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.	3

*Students are encouraged to connect with their preferred college/university advisor to determine transferability of college credit.