



Intro to Ag Mechanics/Welding: This course will teach students specialized skills for the construction, maintenance, repair and service of agricultural equipment and facilities. This class will teach the student to fabricate and adapt various pieces of farm machinery and facilities by cutting, forming, and welding different types of metals. Students will learn the basic principles of plumbing, electrical, welding, concrete work, fencing and some animal husbandry skills. The course integrates math, and physical applications to applied principles within the everyday work world.

Ag Welding: Agricultural Welding provides an opportunity for students to advance their understanding of welding technology. This course integrates mathematics and scientific principles to applied processes in the specialized field of SMAW. The course operates within an extensive laboratory to provide practical applications and advanced instruction in the basic principles of welding as follows: 1) OFC, 2) SMAW, and 3) GMAW. The development of leadership and employability skills are emphasized throughout the course.

Ag Construction: This advanced course will teach students specialized skills for the construction, maintenance, repair and service of agricultural equipment. This class will teach the student to fabricate and adapt various pieces of machinery by cutting, forming, and welding different types of metals. Examples of equipment include: tractors, trailers, harvesters, tilling equipment, and others. This course integrates math and physical applications to applied principles within the everyday work world.

Ag Engineering & Fabrication: This advanced course will teach students specialized skills for the construction, maintenance, repair and service of agricultural equipment. This class will teach the student to fabricate and adapt various pieces of machinery by cutting, forming, and welding different types of metals. Examples of equipment include: tractors, trailers, processing equipment, tilling equipment, and others. This course integrates math and physical applications.

Environmental Science: This course introduces the students to natural resources and outdoor recreation in the areas of the following: wildlife, forestry, water and soil management, pollution, conservation, first aid, survival, outdoor recreation.

Floral Design (1-2-3): These courses are designed to allow students to apply an artistic approach to floral design. Students will explore elements and principles of design, two or three dimensional designs, history of floral art, arrangement styles and techniques, seasonal, holiday and occasional designs. Students will achieve this through creating, designing, identifying, explaining, and evaluating floral topics. Students will learn how to be profitable, create budgets, and shop for the best deals in materials. Students are expected to participate in FFA activities or events through this class. **(DuE - EH37)**

Veterinary Science: This course provides the students with knowledge of both small and large animals. It covers anatomy and physiology, basic animal skills, animal health and sanitation, infectious diseases identification, and control, breeding and breeding systems, feed and nutrition, environment and ecology, marketing of animals/livestock evaluation, financial planning and record keeping, and clinical practices as well as careers in veterinary sciences.



Art Animation: This course uses the computer and graphics software to tell a story through a series of visual images and text on rapidly moving frames. Students will create two-dimensional animations using Adobe Flash software and three-dimensional animations using 3D Studio Max. The two-dimensional animations are used primarily for web pages. The three-dimensional animations are used primarily for designing video games, presentations, and movie special effects. **(AI)**

Digital Animation – Advanced: This course generates art through the use of advanced computer techniques and enhanced projects. Students will draw 1- and 2- point perspectives, create 2D animation including lip synch and body expression and script animations, and create texture maps using 3D Animation. Students will also create a portfolio of their work and job search documentation. **(AI)**

Digital Video Production: Students will learn the specialized vocabulary of the film and television industry and develop communication and design to express themselves clearly and concisely in their production of film, video, and television segments. Students develop ideas individually or within groups, research subject content, script, propose, and produce. **(DuE - GRC27) (AI)**

Advanced Media Production: This course is structured to provide students with entry level knowledge of multi-media production techniques, to prepare for real-world vocational opportunities. Topics of study will include: Sound Characteristics, Sound Console Layout, Audio Recording Machines, microphone design, speaker design, Basic Lighting, Camera operation & composition, Video Recording Machines & Techniques, Editing and Commercial Production for Advertising. **(AI)**



Green Construction: This course prepares students for the competency skills and knowledge necessary to enter the field of residential and light commercial construction. This year course provides student application at all of the various areas of building construction and wood products manufacturing.

Construction Shop Manager Internship: This advanced one year course builds on students' shop skills, tools and machine knowledge by providing them the opportunity to keep tool/part/consumable inventories, repair, adjust, and renew machinery and tools, and give students the chance to work as a team leader in the Construction Course, build jigs, small equipment, and install facility upgrades in a shop management internship.



Introduction to Teaching: This course orients students to careers in teaching and describes the role of teachers in public schools. It requires observations of teacher-pupil interaction, instructional approaches, classroom management in elementary, secondary, and/or middle schools on school sites weekly. Students will increase knowledge of demands and expectations of classroom teaching, general school operations, current issues and best practices affecting teachers and basic concepts of public education. (Students can take this course for a second year.) **(DuE - EDUC10)**



Health Science

First Aid & Safety: This course is taught as part of the Health Careers Pathway. It is a semester-long course and is taught in conjunction with Medical Terminology. A component of the class will be to explore careers in health care. The First Aid and Safety class certifies in American Red Cross Community First Aid and Safety. Certification in American Red Cross Community First Aid and Safety meets the requirements for various types of employment in health care and other types of jobs. Students will have the opportunity to receive certification in infant, adult and child CPR and AED.

Medical Terminology: This course is taught as part of the Health Careers Pathway. It is a semester-long course and is taught in conjunction with First Aid and Safety. A component of the class will be to explore careers in health care through job shadowing, tours and guest speakers. The Medical Terminology course prepares students for entry-level positions into numerous occupations in health care and gives the student a fundamental understanding of the human body. Students study the body systems including anatomy and physiology, pathology, diagnostics, symptomatic and therapeutic terms, numerous medical procedures, abbreviations, pharmacology terms, and medical records. [\(SJVC\)](#)

Pre-Certification Nursing Assistant (CNA): **Class Limit = 17. Two-hour block; one-year course; 20 units per year.** This approved California Department of Public Health (CDPH) Pre-Certification Nursing Assistant (CNA) class includes classroom instruction and clinical hours in a long-term care facility. Transportation will be provided. The course instructs students on the care of geriatric residents. An RN or LVN teaches and supervises the class. After successfully completing the required number of hours of supervised study and hands-on practice and maintaining a 70% GPA or better, the student is eligible to take a **California State Certification Licensing exam for the Certified Nursing Assistant**. Certified Nursing Assistants are in demand at long-term care facilities, hospitals, assisted living, doctor’s offices, and home health agencies. **Students are responsible to pay for the state certification exam (\$90).**



Marketing

Sports & Entertainment Marketing: This course provides students with competencies necessary for entry-level employment and career opportunities within the sports and/or entertainment marketing industries. Students will learn the fundamental concepts of marketing and business principles in the scope of amateur, college, and professional sports. Students will also use the basic principles of marketing to learn the profit motives of financing entertainment projects, the different kinds of entertainment distribution, and promotional advertising and public relations strategies within the entertainment industry as well as licensing entertainment merchandise and copyright laws.



Public Services

Urban/Rural Fire Fighting: This course is designed to prepare individuals for fighting fires and related tasks. The course is the California State Fire Marshal Fire Fighter I course which prepares students for State certification. Students will learn about fire protection organizations, use and handling of firefighting equipment and apparatuses, fire protection and safety, fire behavior and extinguishment methods, rescue and ventilation operations, fire control, and salvage and overhaul of structures. Practical experience will be gained through live fire and simulated exercises relating to the theory taught in the classroom. CPR and first aid will be taught in the course to provide the students with the knowledge and skills necessary to adequately assess and provide care for victims at the scene of injury. **(DuE-FIRET 1)**

Wildland Firefighting: (Regional Program at Reedley College) 2-hour block (1:21 – 3:06 p.m.) with 5 Saturday field days. This course provides an introduction to fire protection. This course also introduces students to the USDA Forest Service (USFS) and prepares them with basic firefighting and conservation entry-level skills. Classroom instruction, demonstration, and hands-on field application will be given in basic firefighting, standards for survival, engine and pump operations, backfiring methods and equipment use, chainsaw operations, map and compass use, air operations, basic hand tool sharpening and use, fire line construction, and forest conservation. Students who are 18 upon completion of the class (end of April) and have achieved the appropriate certifications may apply for the USFS Summer Intern program and work as firefighters from May through October. **(Transportation will be provided.) (DuE-NR 5, NR 8, NR 42, NR 110)**



Transportation and Automotive

Aviation Technology and Flight School: (Regional Program at Reedley College) 2-hour block (1:21 – 3:06 p.m.) The Aviation Maintenance Technology Class designed to teach the theory of operation of aircraft airframes, power plants, and avionics systems and associated maintenance and repair practices. This course will also provide a basic introduction to flight school where students will explore the basics of flight training ground school using flight simulators. Students learn to use and read and navigate with airplane instruments, Meteorology systems, and Flight environment. **(Transportation will be provided.)**