



**RED BLUFF JOINT UNION
HIGH SCHOOL DISTRICT**

Career Technical Education Course Descriptions

2023-2024

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Red Bluff High School LCAP Goal 5: Provide a robust CTE program with a focus on providing career opportunities for our students.

1. Provide standards-aligned course via on online platform to provide more opportunities for learning for students in alternative ed. settings.
2. Expand career exploration courses for students with disabilities.
3. Provide additional support in CTE courses to allow access for English learners and student with learning disabilities.
4. Provide comprehensive CTE pathways to all student in order to meet graduation requirements.
5. Provide work exploration courses and work place experience to student with disabilities.

Career Technical Education (CTE) engages, motivates, and prepares all students for the future. The academic, technical, and workplace skills offered through CTE are essential to success for all working adults. They are essential to society in addressing the challenges posed not only by a changing economy, but also by a changing world.

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Courses that meet the college preparatory A-G requirement for entry into a UC or CSU are indicated by:
(A) History, (B) English, (C) Math, (D) Lab Science, (E) Language, (F) Visual and Performing Arts, (G) Elective;
Other identifiers include: (DE) Dual Enrolled course with Shasta College, (CE) Concurrent Enrollment with Shasta College, and (PLTW) Project Lead the Way course



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Industry Sector – Agriculture & Natural Resources

COURSE NO: 3032
TITLE: AG BIOLOGY (D)
CAREER PATHWAY: Agriscience, Forestry & Natural Resources
GRADE LEVEL: 9-10
CALPADS COURSE TITLE: Introduction to Agriscience
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Biological Technicians
O*NET- SOC CODE: 19-4021.00
HOURS: 180
CALPADS COURSE CODE: 7130
COURSE LEVEL: Introductory

COURSE DESCRIPTION: The course emphasizes detailed knowledge of molecular and cellular aspects of living things, structure and function of plants and animals, genetics, plant and animal diversity and the principles of classification, ecological relationships and animal behavior. The agriculture department centers their teaching on a “learn-by-doing” philosophy, so students will get to apply what they are learning through hands-on projects and lessons in the greenhouse and school farm.

PREREQUISITE: Teacher recommendation.

COURSE NO: 3006
TITLE: ANIMAL SCIENCE (G)
CAREER PATHWAY: Animal Science
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Intermediate Animal Science
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Animal Husbandry & Care Worker
O*NET- SOC CODE: 45-1011.08
HOURS: 180
CALPADS COURSE CODE: 7141
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: An in depth study of beef, dairy cattle, sheep, swine and horses will be completed. The areas of emphasis will be animal health and nutrition, anatomy and physiology of farm animals, judging and selection, feeds and feeding, breeding programs and marketing of livestock. The areas covered will be reinforced by hands-on experience at the school farm and completion of projects through the Supervised Agriculture Experience Program.

COURSE NO: 3087
TITLE: EQUINE SCIENCE
CAREER PATHWAY: Animal Science
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Intermediate Animal Science
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Animal Caretakers
O*NET- SOC CODE: 39-2021.00
HOURS: 180
CALPADS COURSE CODE: 7141
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: The course will cover the history of the horse, breed types, anatomy and physiology of horses, nutrition, parasites and diseases. Equine Science will also focus on industry, animal behavior, and basic veterinary procedure. Guest lectures, veterinarians, vector control officials, and animal health technicians will also be provided to add knowledge of current practices that are implemented in the equine industry. FFA and Supervised Agricultural Experience Programs are required components of this class.

COURSE NO: 9008/9009
TITLE: VETERINARIAN TECHNICIAN
CAREER PATHWAY: Animal Science
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Advanced Animal Science
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Veterinary Technician
O*NET- SOC CODE: 29-2056.00
HOURS: 180
CALPADS COURSE CODE: 7142
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This course covers orientation to the animal care and veterinary medicine fields including the following topics: Career research and job seeking skills; Work ethic/etiquette; Safety and universal health precautions; Medical terminology; Animal behavior, handling and restraint; Animal anatomy and physiology; Nutrition; Microbiology and parasite

identification; Pathology; Common surgical procedures; Lab procedures; Vaccine types and administration. Community Classroom placement may be available in the second semester.

PREREQUISITE: Animal Science or Ag Bio recommended.

COURSE NO: 9911
TITLE: AG LEADERSHIP
CAREER PATHWAY: Agriculture Business
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Intermediate Agricultural Business
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Farm & Ranch Managers
O*NET- SOC CODE: 11-9013.02
HOURS: 180
CALPADS COURSE CODE: 7111
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: The course is designed to acquaint the student with the theories and principles of personal and servant leadership development and allow the student to integrate such skills to his/her own life and decision-making processes. The student will acquire practical skills and knowledge by exploring elements of group dynamics, advanced planning, parliamentary procedure, public speaking, marketing, etiquette, and gratitude. Because of the nature of this class, student time is not limited to only classroom experiences. Students should plan to be involved in a majority of FFA activities, including attendance at monthly FFA meetings.

PREREQUISITE: Teacher recommendation.

COURSE NO: 9902
TITLE: AG BUSINESS & ECONOMICS
CAREER PATHWAY: Agriculture Business
GRADE LEVEL: 12
CALPADS COURSE TITLE: Advanced Agricultural Business
CREDIT: 10

START DATE: 2016
JOB TITLE: Advertising Sales Agent
O*NET- SOC CODE: 41-3011.00
HOURS: 180
CALPADS COURSE CODE: 7112
COURSE LEVEL: Capstone

COURSE DESCRIPTION: Ag Sales & Marketing courses develop student knowledge and skills in agricultural sales and marketing, commodity marketing, agricultural economics, and international agriculture. Instructional units include: successfully starting an agribusiness, developing a marketing plan, pricing, advertising, and selling products and services, communicating with customers, applying commodity trading techniques, basic economic principles, the international agribusiness economy, and agricultural career opportunities. Student skills will be enhanced in math, reading comprehension, communications, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and SAE projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

PREREQUISITE: Teacher recommendation.

COURSE NO: 3102
TITLE: AG EARTH SCIENCE (D)
CAREER PATHWAY: Agriscience
GRADE LEVEL: 9-10
CALPADS COURSE TITLE: Agricultural Environmental & Earth Science
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Environmental Technician
O*NET- SOC CODE: 19-44091.00
HOURS: 180
CALPADS COURSE CODE: 7130
COURSE LEVEL: Introductory

COURSE DESCRIPTION: This course will consist of studies pertaining to earth science and general physical science ideas including atoms and matter, soil, rocks, minerals, California geology, space and basic astronomy. This class will utilize local and regional issues and concerns to stimulate problem solving activities and to foster a sense of earth stewardship by students in their communities. The agriculture department centers their teaching on a "learn-by-doing" philosophy, so students will get to apply what they are learning through hands-on projects and lessons in the greenhouse and school farm.

COURSE NO: 9059
TITLE: AG FARM OPERATIONS
CAREER PATHWAY: Agriscience
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Advanced Agriscience
CREDITS: 10

START DATE: Prior to 2014
JOB TITLE: Agriculture Technician
O*NET- SOC CODE: 19-4011.01
HOURS: 180
CALPADS COURSE CODE: 7132
COURSE LEVEL: Capstone

COURSE DESCRIPTION: The goal of this course is to give students the opportunity to explore industries as they relate to agriculture. They will complete coursework and hands-on activities at the school farm. Students will learn employability skills such as completing a job application, creating a resume, conducting an interview, and keeping a work log. A portion of the student's grade will be earned through participation in FFA activities which may include, but not limited to conferences, meetings, fundraisers, field days, etc. Students may be provided an opportunity to participate with a local agricultural business for 4 or more hours a week, and will meet with their agriculture instructor for one hour a week.

COURSE NO: 3115 & 3116 (DE)
TITLE: AG & SOIL CHEMISTRY (D)(DE)
CAREER PATHWAY: Agriscience
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Soil Science
CREDIT: 10

START DATE: 2015
JOB TITLE: Environmental Scientist
O*NET- SOC CODE: 19-4091.00
HOURS: 180
CALPADS COURSE CODE: 7131
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This year long lab science course is designed for the college bound student who is interested in careers in Agriculture or Applied Sciences. The course explores the physical and chemical nature of soil as well as the relationships between soil, plants, animals and agricultural practices. Students will examine properties of soil and land and their connections to plant and animal production. Using knowledge of scientific protocols as well as course content, students will develop an Agricultural Science research program to be conducted throughout the first semester of the course. To complete their project each student will investigate and test an Agricultural Science research question related to the course content, formulating a hypothesis based on related research, conducting an experiment to test the hypothesis, collecting quantitative data, and forming a conclusion based on analysis of the data. The result of this research program will be an in depth research and experimentation paper that is technically written, based on scientific protocol. Additionally, students will develop and present a capstone soil management plan for agricultural producers, using the content learned throughout the course. Throughout the course, students will be graded on participation in intra-curricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience (SAE) program. Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

PREREQUISITE: C or better in Ag Bio (P), and a grade of "B" or better in Math 1.

COURSE NO: 3054
COURSE: AG SYSTEMS MANAGEMENT (P)
CAREER PATHWAY: Agriscience
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Crop Production
CREDIT: 10

START DATE: Fall 2016
JOB TITLE: Farm Management Advisor
O*NET-SOC CODE: 25-9021.00
HOURS: 180
CALPADS COURSE CODE: 7132
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This class is the third in a rigorous 3-year Agriscience Pathway that combines an interdisciplinary approach to laboratory science and research with agricultural management principles. Using skills and principles learned in the course, students design systems and experiments to solve agricultural management issues currently facing the industry. Additionally, students will connect the products created in this class with industry activities to link real world encounters and implement skills demanded by both colleges and careers. Throughout the course, students will be graded on participation in intra-curricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience (SAE) program.

PREREQUISITE: C or better in Ag Bio (P), and Ag & Soil Chemistry.

COURSE NO: 9011
TITLE: FLORAL DESIGN (F)
CAREER PATHWAY: Ornamental Horticulture
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Floriculture & Floral Design
CREDITS: 10

START DATE: Prior to 2014
JOB TITLE: Nursery Worker
O*NET- SOC CODE: 45-2092.01
HOURS: 180
CALPADS COURSE CODE: 7164
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: Floral Design is an introductory course on the production of commercial floral arrangements, corsages, and products. The history and principles of floral design will be covered. Students will construct various floral products including arrangements, corsages, holiday, party, and wedding work. An overview of the floral industry includes flower and plant care; sales and business techniques will be presented. Students will develop a portfolio and resume to use when applying for employment in the floral industry. This course meets the fine arts requirement for high school graduation.

COURSE NO: 9013
TITLE: ADVANCED FLORAL DESIGN (F)
CAREER PATHWAY: Ornamental Horticulture
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Floriculture & Floral Design
CREDITS: 10

START DATE: 2015
JOB TITLE: Floral Designer
O*NET- SOC CODE: 27-1023.00
HOURS: 180
CALPADS COURSE CODE: 7165
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This course allows students to learn professional florist skills needed for employment. Students will explore the floral industry on a more technical/advanced level including the proper care and handling of flowers, plants, and foliage; evaluate floral materials and arrangements; utilize floral tools, supplies and products to apply design principles to floral medium; construct arrangements for all occasions; display, price and market floral designs; and preserve floral materials as students run their own floral shop. Art elements and principles of design will serve as a foundation for each unit covered. After completion of this class, students will be prepared to secure a job in the floral industry. Students will be exposed to careers in Agriculture Business. Students will automatically become members of the FFA and participation in FFA activities and supervised agricultural experience programs will be a graded component of the course.

PREREQUISITE: C or better in Floral Design.

COURSE NO: 9210
TITLE: AG MECHANICS I
CAREER PATHWAY: Ag Mechanics, (Welding & Material Joining)
GRADE LEVEL: 9-10
CALPADS COURSE TITLE: Introduction to Agricultural Mechanics
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Farm/Ranch Hand
O*NET- SOC CODE: 45-2092.02
HOURS: 180
CALPADS COURSE CODE: 7120
COURSE LEVEL: Introductory

COURSE DESCRIPTION: Introductory Agricultural Mechanics courses provide theory and hands-on experiences that provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. The student will build projects designed to teach safe and proper use of common hand tools and power tools. Other areas covered will be tool identification, wood and metal projects, forge works, sharpening of tools and plumbing.

COURSE NO: 9152
TITLE: AG MECHANICS II
CAREER PATHWAY: Ag Mechanics, (Welding & Material Joining)
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Agricultural Welding
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Equipment Service Technician
O*NET- SOC CODE: 49-3041.00
HOURS: 180
CALPADS COURSE CODE: 7121
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This courses is a beginning welding class that focuses on all phases of the welding process with electric arc, acetylene and metal inert gas (MIG) welding as related to agricultural structures and industry.

PREREQUISITE: Complete Ag Mechanics I or successful completion of Metals I.

COURSE NO: 9114
TITLE: AG MECHANICS III
CAREER PATHWAY: Ag Mechanics, (Welding & Material Joining)
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Fabrication & Construction
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Maintenance/Repair Worker
O*NET- SOC CODE: 49-9071.00
HOURS: 180
CALPADS COURSE CODE: 7121
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This course builds on Ag Mechanic II and helps students further develop their skills and knowledge related to welding methods and metal fabrication.

PREREQUISITE: Complete Ag Mechanics II.

COURSE NO: 9116 & 9236 (DE)
TITLE: AG MECHANICS IV (DE)
CAREER PATHWAY: Ag Mechanics, (Welding & Material Joining)
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Fabrication & Construction
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Welder
O*NET- SOC CODE: 51-4121.06
HOURS: 180
CALPADS COURSE CODE: 7122
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This course builds on Ag Mechanic III and includes projects in advanced metal fabrication and welding. Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

PREREQUISITE: Complete Ag Mechanics III.

COURSE NO: 3007
TITLE: AG NATURAL RESOURCES (G)
CAREER PATHWAY: Forestry & Natural Resources
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Natural Resource Management
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Conservation Technician
O*NET- SOC CODE: 19-4093.00
HOURS: 180
CALPADS COURSE CODE: 7151
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: The Natural Resource class explores the importance of natural resources. This includes current environmental issues, California water solutions, habitat restoration, and the importance of technology with e-mail, internet and word processing. Also covered are: wildlife management and conservation, hydrology, soil science, orienteering, aquaculture and forestry.



Industry Sector – Public Services

COURSE NO: 9228
TITLE: FIREFIGHTING I
CAREER PATHWAY: Emergency Response
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Firefighting Occupations
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Forest Firefighter
O*NET- SOC CODE: 33-2011.02
HOURS: 180
CALPADS COURSE CODE: 8421
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: Firefighter Technology Careers I enhances students' fundamental understanding of the fire service this first year course emphasizes career specific technical content while strengthening fundamental life skills based upon principles of the fire service. The objective is to equip the student for a successful transition into the workforce in any discipline. The curriculum is based upon IFSTA Firefighter I standards with applicable skill development in the skills lab. Topics taught include: introduction to fire technology, basic structural fire company operations, basic wildland firefighting practices, and firefighter safety and survival, and Emergency Medical Services (EMS). Upon completion, the student will become certified in ICS-100, 200, 700, and 800; CPR/First Aid with exposure to Emergency Medical Responder standards. Experienced full time, retired, and volunteer firefighters and other EMS disciplines will provide real-life guidance to equip the student for entry-level employment opportunities with government agencies and private sector providers such as the California Conservation Corps (CCC), CAL FIRE, US Forest Service, Firestorm, and city municipalities.

PREREQUISITE: Open to 11th and 12th grade students. This is course one of a potential two year program.

COURSE NO: 9220 & 9230
TITLE: FIREFIGHTING II
CAREER PATHWAY: Emergency Response
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Firefighting Technology
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Firefighter
O*NET- SOC CODE: 33-2011.00
HOURS: 360
CALPADS COURSE CODE: 8422
COURSE LEVEL: Capstone

COURSE DESCRIPTION: Firefighter Technology Careers 2 strengthens the knowledge base obtained in Fire Technology Careers 1. Further development in fire service principles and practices are expanded to include soft skills such as interpersonal communication, personal conduct, professional workplace standards, and career development such as resume preparation, interview techniques, and career sustainability. Hard skills with a lab component shall include Emergency Medical Responder (EMR), expanded wildland skills, and certifications in multiple industry specific courses. Priority hiring may be given to graduates through the California Conservation Corps with a two year employment option: wage, benefits, and experience. Other government municipalities for employment shall include CAL FIRE, US Forest Service, and local volunteer fire departments, and private fire industry contract departments. Portions of this course will provide the successful student an opportunity to continue their daily individual development by working alongside with local fire professionals in the community classroom setting at local fire departments.

PREREQUISITE: Open to 12th grade students only. This is course two of a two year program.

COURSE NO: 9225
TITLE: EMERGENCY MEDICAL TECHNICIAN (DE)
CAREER PATHWAY: Emergency Response (Pathway 233)
GRADE LEVEL: 12
CALPADS COURSE TITLE: First Responders Basic
CREDIT: 10

START DATE: Fall 2017
JOB TITLE: EMT
O*NET- SOC CODE: 29-2041.00
HOURS: 180
CALPADS COURSE CODE: 8422
COURSE LEVEL: Capstone

COURSE DESCRIPTION: The course provides the student with an outline of the EMS system, introduces assessment skills, as well as provides pathophysiology of common neurological, respiratory, and cardiac related emergencies. An intensive course to assist the student with developing skill in recognition of symptoms of illness and injuries, and proper procedures in

emergency care. The course is a training course for emergency medical technicians performing as ambulance attendants. It covers techniques of emergency medical care presently considered within the responsibilities of the emergency medical technician, and emphasizes the development of student skills in recognition of symptoms of illnesses and injuries and proper procedures of emergency care. Emphasis is placed on patient assessment, communication, ambulance operations, and patient care in accordance with the California State Emergency Medical Services Agencies. Upon successful completion of the course and the statewide written and skills examination, the students are encouraged to submit their application to Northern California Emergency Medical Services, Inc. for certification. This is a dual enrolled course through Shasta College and students will earn college credits.



Industry Sector – Finance & Business

COURSE NO: 7009
TITLE: COMPUTER GRAPHICS
CAREER PATHWAY: Design, Visual & Media Arts, and Business Management
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Computer Graphics & Media Technology
CREDIT: 10

START DATE: Fall 2016
JOB TITLE: Graphic Designer
O*NET- SOC CODE: 27-1024.00
HOURS: 180
CALPADS COURSE CODE: 7210
COURSE LEVEL: Introductory

COURSE DESCRIPTION: This year-long introductory course is designed for students who enjoy working with computers and art. The course will focus on the principles, skills, and equipment used in computer graphic industries through hands-on computer based projects using Autodesk Suite, 3-D modeling software, Adobe Creative Suite, and the internet. Combining art skills with computer skills, students will create exciting multi-media publications, including a culminating Final Design Portfolio. Typical topics may include modeling techniques, simulation, photo alteration and internet design.

COURSE NO: 8007 & 8013
TITLE: PERSONAL FINANCE
CAREER PATHWAY: Business Management (Pathway 182)
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Intermediate Financial Svs Mgmt and Bus Economics
CREDIT: 5

START DATE: Fall 2018
JOB TITLE: Personal Financial Advisor
O*NET- SOC CODE: 13-2052.00
HOURS: 90
CALPADS COURSE CODE: 7421
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This course is designed to provide students with the information and decision-making tools needed for planning and implementing a successful lifelong financial plan. Topics will include budgeting, debt management, savings and other investment vehicles, taxes, insurance, and retirement planning. This course may be offered in a distance education format. This course is a dual enrolled course with Shasta Community College. (CSU transferable). Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

COURSE NO: 8008 & 8006 (DE)
TITLE: INTRODUCTION TO BUSINESS (DE)
CAREER PATHWAY: Business Management (Pathway 182)
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Business Fundamentals
CREDIT: 5

START DATE: Spring 2019
JOB TITLE: Administrative Assistant
O*NET- SOC CODE: 43-6014.00
HOURS: 90
CALPADS COURSE CODE: 7411
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This introductory course covers the different disciplines (finance, management, and marketing) of business. The course also covers the complexities of the competitive business world and includes additional disciplines such as international business, forms of business ownership, social responsibility and ethics, and entrepreneurship. Designed to provide students with familiarity with basic principles and practices of contemporary business, knowledge of business terminology, and an understanding of how business works within the U.S. economic system. Due to its introductory nature, it is recommended that this course be taken as a first business course. This course is a dual enrolled course with Shasta Community College. Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.



Industry Sector – Engineering & Architecture

COURSE NO: 3110

TITLE: ENVIRONMENTAL SCIENCE (D)

CAREER PATHWAY: Environmental & Natural Science Engineering

GRADE LEVEL: 11-12

CALPADS COURSE TITLE: Environmental Studies

CREDIT: 10

START DATE: Prior to 2014

JOB TITLE: Conservation Worker

O*NET- SOC CODE: 45-4011.00

HOURS: 180

CALPADS COURSE CODE: 2612

COURSE LEVEL: Introductory

COURSE DESCRIPTION: Students will participate in a hands-on, cooperative learning environment to study the themes of biodiversity, resources, and pollution. These units will include: Ecosystems, Human Populations, Renewable Resources, Energy, Pollution, and the Sustainable Future. This course will use environmental issues of Tehama County and Northern California to keep the subject matter relative and close to home, while preparing students for a changing career world filled with potential jobs in the environmental field.

COURSE NO: 9174

TITLE: NASA ASTROBIOLOGY INTERNSHIP YEAR 1

CAREER PATHWAY: Environmental & Natural Science Engineering

GRADE LEVEL: 11-12

CALPADS COURSE TITLE: Principals of Environmental & Natural Science Engineering

CREDIT: 10

START DATE: 2014

JOB TITLE: Environmental Engineering Technician

O*NET- SOC CODE: 17-3025.00

HOURS: 180

CALPADS COURSE CODE: 2624

COURSE LEVEL: Introductory

COURSE DESCRIPTION: NASA Astrobiology Interns will study chemistry, biology, and geology and how they are specifically related to the hydrothermal systems found in Lassen Volcanic National Park. Students will work closely with scientists from NASA Ames Research Center and Park Rangers from Lassen Volcanic National Park to gather samples, develop a hypothesis and then conduct experimentation to test their hypothesis. Upon completion, students will be responsible for writing a thesis paper and giving a public presentation detailing their findings.

PREREQUISITE: Passed or concurrently enrolled in Chemistry (CP or H). Student must complete an application process and receive instructor approval prior to enrollment.

COURSE NO: 9175

TITLE: NASA ASTROBIOLOGY INTERNSHIP YEAR 2

CAREER PATHWAY: Environmental & Natural Science Engineering

GRADE LEVEL: 12

CALPADS COURSE TITLE: Environmental Engineering Level 2

CREDIT: 10

START DATE: 2015

JOB TITLE: Natural Science Manager

O*NET- SOC CODE: 11-9121.00

HOURS: 180

CALPADS COURSE CODE: 2624

COURSE LEVEL: Capstone

COURSE DESCRIPTION: Second-year NASA Astrobiology Interns will continue their study of chemistry, biology, and geology of the hydrothermal systems found in Lassen Volcanic National Park along with taking on a leadership role for first-year interns. Having developed a close, working relationship with scientists from NASA Ames Research Center and Park Rangers from Lassen Volcanic National Park, second year interns will be responsible for coordinating, along with the teaching of field research skills, to a team of first-year interns. As team leaders, they will organize their team to gather samples, develop a hypothesis and then conduct experimentation to test their hypothesis. Upon completion, second-year interns will also be responsible for writing a thesis paper and giving a public presentation detailing their findings.

PREREQUISITE: Student must have successfully completed NASA Astrobiology internship year 1. Student must complete an application process and receive instructor approval prior to enrollment.



Industry Sector – Arts, Media & Entertainment

COURSE NO: 7002
TITLE: ART I (F)
CAREER PATHWAY: Design, Visual & Media Arts
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Drawing
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Craft Artist
O*NET- SOC CODE: 27-1012.00
HOURS: 180
CALPADS COURSE CODE: 2806
COURSE LEVEL: Introductory

Course Description: Art I provides a basic foundation of drawing skills, techniques, vocabulary and expression. All students explore an artist with an in-depth written report embellished with an artistic reflection. All students are required to demonstrate practical skills and a stronger appreciation through project and written assignments. In the second semester, students continue to build drawing skills, more advanced techniques, vocabulary and expression. Color theory, painting and portfolio building are emphasized. All students explore an art period with an in-depth written report. All students will demonstrate personal imagination and expression skills with a “project of choice” for their final piece. All students must pass the vocabulary final exam.

COURSE NO: 7019 & 7020
TITLE: ART II (F) & ART III
CAREER PATHWAY: Design, Visual & Media Arts
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Drawing
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Set and Exhibit Designer
O*NET- SOC CODE: 27-1027.00
HOURS: 180
CALPADS COURSE CODE: 2806
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: The course has three parts. The first part is a study of past and contemporary artists and trends. The second part is maintaining a sketchbook. A student’s sketchbook is to be composed of visual ideas, notes, photographs, doodles, plans, short assignments, quick drawings, and practice of various techniques. Finally, students will be required to complete a fourteen piece portfolio created from personal photographs, still-life arrangements, their surroundings, and nature. Absolutely no images will be used from the internet. Portfolio pieces will be presented by the students at both a community wide and school specific art show. In addition to class work, students are expected to visit galleries and art museums on their own. The San Francisco Museum of Modern Art, Sacramento Crocker Museum, the annual TCAC Art Walk, as well as one University Art Gallery must be visited. Students will research artists to gain insight into use of mediums, social commentary, and the variety of individuality among artists.

PREREQUISITE: Successful completion of Art 1.

COURSE NO: 1087
TITLE: ADVANCED JOURNALISM I & II
CAREER PATHWAY: Design, Visual & Media Arts
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Journalism
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Reporter
O*NET- SOC CODE: 27-3022.00
HOURS: 180
CALPADS COURSE CODE: 2111
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This course publishes the school newspaper, The Bluffer, on a bi-weekly basis. Students must demonstrate skills in the usage of programs such as InDesign, Photoshop and Word. The class also emphasizes collaboration in which students will develop skills in planning, organizing, and meeting deadlines.

PREREQUISITE: Only open to students who have completed Beginning Journalism with a "C" or better, or teacher recommendation.

COURSE NO: 9618
TITLE: YEARBOOK
CAREER PATHWAY: Design, Visual & Media Arts
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Yearbook
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Editor
O*NET- SOC CODE: 27-3041.00
HOURS: 180
CALPADS COURSE CODE: 2821
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This is a technology driven class designed to produce the Red Bluff High School's yearbook: Dictum Est. Through leadership of editors, students will plan the content and theme for the yearbook. Students will use desktop publishing programs such as eDesign. Students will be responsible for designing pages which will include copy writing and photo manipulation. Students will meet all publishing deadlines and work well with their team members throughout the year. Any student wishing to enroll in this class must complete an application and interview process.

PREREQUISITE: Completion of Mass Media 1 and complete the application/interview with the instructor.

COURSE NO: 7000
TITLE: DANCE I (F)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Dance, Movement, & Rhythmic Fundamentals
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Recreation Worker
O*NET- SOC CODE: 39-9032.00
HOURS: 180
CALPADS COURSE CODE: 2355
COURSE LEVEL: Introductory

COURSE DESCRIPTION: Dance I provides a beginning level dance arts experience. The courses cover fundamentals of dance movement, experience in various common dance styles and skills building. These courses will culminate in a yearly dance show.

PREREQUISITE: Grade of a B or higher in P.E.

COURSE NO: 7001
TITLE: DANCE II (F)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Intermediate Dance Performance
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Actor
O*NET- SOC CODE: 27-2011.00
HOURS: 180
CALPADS COURSE CODE: 2352
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: Dance II provides an intermediate level dance arts experience. The courses cover fundamentals of dance movement, experience in various common dance styles and skills building. These courses will culminate in a yearly dance show.

PREREQUISITE: Grade of a B or higher in P.E. and permission of instructor.

COURSE NO: 7007
TITLE: DANCE III (F)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Advanced Dance/Choreography
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Choreographer
O*NET- SOC CODE: 27-2032.00
HOURS: 180
CALPADS COURSE CODE: 2356
COURSE LEVEL: Capstone

COURSE DESCRIPTION: Dance III will include advanced techniques and styles of performance dance. The group will be performing at school recitals and serve as a service performance group for school and community activities.

PREREQUISITE: Audition.

COURSE NO: 7185
TITLE: THEATRE ARTS (F)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Intermediate Theatre Performance
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Actor
O*NET- SOC CODE: 27-2011.00
HOURS: 180
CALPADS COURSE CODE: 2900
COURSE LEVEL: Introductory

COURSE DESCRIPTION: Beginning Theatre Performance students explore the art of acting, following the Stanislavski System of Acting. Students will create characters, write scenes and/or monologues, learn to self and peer critique using Theatre Vocabulary, as well as model audience etiquette. Students will perform scenes. This is a performance oriented class. All students perform on stage.

PREREQUISITE: Cooperative spirit and ability to try.

COURSE NO: 7187
TITLE: THEATRE ARTS II (F)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Advanced Theatre Performance
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Actor/Playwright
O*NET- SOC CODE: 27-3043.00
HOURS: 180
CALPADS COURSE CODE: 2904
COURSE LEVEL: Capstone

COURSE DESCRIPTION: A natural progression from Beginning Theatre Performance, students in this course explore in depth techniques for the stage: acting, voice and diction; improvisation as part of the rehearsal process; directing, writing, as well as the process of stage productions. Students study the standard literature contained within the content standards. This is a performance oriented class.

PREREQUISITE: Successful completion of Beginning Theatre Performance (work, as well as behavior) or equivalent; audition and approval of instructor.

COURSE NO: 7102
TITLE: BEGINNING CHOIR (F)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Intermediate Musical Performance
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Music Teacher
O*NET- SOC CODE: 25-1121.00
HOURS: 180
CALPADS COURSE CODE: 7234
COURSE LEVEL: Concentrator

COURSE DESSCRIPTION: An entry-level course to the vocal music program, the Beginning Chorus provides any student with the opportunity to learn vocal production and part singing skills. The group will be presenting concerts and each student is responsible for the preparation and presentation of solo and small ensemble projects.

COURSE NO: 7106
TITLE: SHOW CHOIR (P)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Advanced Professional Music
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Actor
O*NET- SOC CODE: 27—2011.00
HOURS: 180
CALPADS COURSE CODE: 7235
COURSE LEVEL: Capstone

COURSE DESSCRIPTION: Show Choir is an exciting performance group. Students are given an opportunity to choreograph all of their numbers. This class performs in the winter concert and the spring highlights concert as well as school/community performances. The group performs selected popular music from all time periods and genres for their concerts and competitions. Teamwork is an important part in this course.

PREREQUISITE: Audition and/or instructor's approval.

COURSE NO: 7107
TITLE: CONCERT CHOIR (P)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Advanced Professional Music
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Musician & Singer
O*NET- SOC CODE: 27-2042.00
HOURS: 180
CALPADS COURSE CODE: 7235
COURSE LEVEL: Capstone

COURSE DESSCRIPTION: Concert choir is one of the prime vocal performing groups. It is responsible for concert work as well as school/community service performances. The course content covers a complete variety of vocal literature of all levels of difficulty. This class participates and travels as a Victorian Caroler Ensemble around the holiday season and a Renaissance Ensemble in the spring.

PREREQUISITE: Audition only.

COURSE NO: 7109
TITLE: CONCERT BAND (P)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 9-10
CALPADS COURSE TITLE: Intermediate Musical Performance
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Music Teacher
O*NET- SOC CODE: 25-1121.00
HOURS: 180
CALPADS COURSE CODE: 7234
COURSE LEVEL: Concentrator

COURSE DESSCRIPTION: Concert Band is a fun and enriching ensemble ideal for those who strive for excellence in music making. Students will gain valuable knowledge in the fundamentals of technique, musicianship, and music analysis and theory through the study and performance of quality band literature. Students will also participate in marching events and will hone skills associated with proper marching form and function. Participation in after-school rehearsals and performances are a required part of this class.

PREREQUISITE: Prior experience recommended.

COURSE NO: 7110
TITLE: ADVANCED CONCERT BAND (F)
CAREER PATHWAY: Performing Arts
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Advanced Professional Music

START DATE: Prior to 2014
JOB TITLE: Musician & Singer
O*NET- SOC CODE: 27-2042.00
HOURS: 180
CALPADS COURSE CODE: 7235

CREDIT: 10

COURSE LEVEL: Capstone

COURSE DESSCRIPTION: Concert Band is a fun and enriching ensemble ideal for those who strive for excellence in music making. Students will gain valuable knowledge in the fundamentals of technique, musicianship, and music analysis and theory through the study and performance of quality band literature. Students will also participate in marching events and will hone skills associated with proper marching form and function. Participation in after-school rehearsals and performances are a required part of this class.

PREREQUISITE: Audition only.

COURSE NO: 9470

TITLE: BROADCAST TECHNOLOGIES I

CAREER PATHWAY: Production & Managerial Arts

GRADE LEVEL: 9-12

CALPADS COURSE TITLE: Intermediate Multimedia Production

CREDIT: 10

START DATE: Prior to 2014

JOB TITLE: Radio Operator

O*NET- SOC CODE: 27-4013.00

HOURS: 180

CALPADS COURSE CODE: 7247

COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This elective technology class fuses together technology and audio communications. Students operate and maintain Red Bluff High School's FM radio station KRBH 107.7 as well as use of Adobe Audition 2.0 to manipulate a plethora of sounds into professional grade audio information and entertainment. Students will practice media communications, voice recording, multi-track recording, editing and commercial quality standards. Students will produce a variety of files that will be distributed to local radio, including public service announcements, high school sports information, Red Bluff High School promotions, RBHS daily bulletin information and Radio Dramas.

PREREQUISITE: Teacher approval.

COURSE NO: 9471

TITLE: BROADCAST TECHNOLOGIES II

CAREER PATHWAY: Production & Managerial Arts

GRADE LEVEL: 10-12

CALPADS COURSE TITLE: Advanced Multimedia Production

CREDIT: 10

START DATE: Prior to 2014

JOB TITLE: Radio Announcer

O*NET- SOC CODE: 27-3011.00

HOURS: 180

CALPADS COURSE CODE: 7248

COURSE LEVEL: Capstone

COURSE DESCRIPTION: This elective technology expands on Radio Productions 1 skills and experience, including operate and maintain Red Bluff High School's FM radio station KRBH 107.7 and use of Adobe Audition 2.0. Students will become proficient at media communications, voice recording, multi-track recording, editing and commercial quality standards. Students will produce a variety of files that will be distributed to local radio, including public service announcements, high school sports information, Red Bluff High School promotions, RBHS daily bulletin information and Radio Dramas. Students will have the potential to be placed in a lead position.

PREREQUISITE: Completion of Radio Productions I and instructor approval.



Industry Sector – Education, Child Development & Family Services

COURSE NO: 9110

TITLE: CHILD DEVELOPMENT

CAREER PATHWAY: Child Development (G)

GRADE LEVEL: 9-12

CALPADS COURSE TITLE: Child Development & Guidance

CREDIT: 10

START DATE: Prior to 2014

JOB TITLE: Teacher Assistant

O*NET- SOC CODE: 25-9041.00

HOURS: 180

CALPADS COURSE CODE: 7510

COURSE LEVEL: Concentrator

COURSE DESCRIPTION: In this class students will study the growth and development of infant, toddler, and young children. They will learn what a child needs to grow to their optimum potential and what can have a detrimental effect on a child's development. They will learn about developmental theories, nutritional needs of young children, ages and stages of development. Students will have opportunities to interact with young children through projects they will create and activities they will provide your young children. The students in this class will become positive role models for young children. This course is a prerequisite for the Child Care Occupations course. Students must pass Child Development with a C or better to move on to Child Care Occupations.

COURSE NO: 9129

TITLE: CHILDCARE OCCUPATIONS (G)(DE)

CAREER PATHWAY: Child Development

GRADE LEVEL: 10-12

CALPADS COURSE TITLE: Careers in Child Development

CREDIT: 10

START DATE: Prior to 2014

JOB TITLE: Pre-School Teacher

O*NET- SOC CODE: 25-2011.00

HOURS: 360

CALPADS COURSE CODE: 7511

COURSE LEVEL: Capstone

COURSE DESCRIPTION: Do you like working with children? Do you think you would like to be a teacher or an aide in a preschool or elementary school? Do you hope to open your own home day care? If the answer is yes, this class is a must for you. It is also geared to students interested in careers related to young children, including social services, developmental disabilities specialist, or pediatric nurse/pediatrician. After the first 8 weeks of in-class preparation, each student transitions to a community classroom site for on-the-job training at a school or childcare facility. Community classroom placements include infant through pre-kindergarten day care, kindergarten, and elementary classrooms. Students spend 3 days per week working at their community classroom site and 1 day per week in the RBHS classroom. Class instruction includes careers related to child development, safety in the workplace, first aid/CPR certification, mandated reporting trainings and guidance techniques for young children, as well as a wide variety of hands-on creative art, music, and language and science/nature activities. Each student will complete a personal professional portfolio including a cover letter, resume and job application. This is a two period class.

PREREQUISITE: Must be a junior or senior and have passed Child Development with a C or better.

DURATION: Preferred is 2 periods per day for 1 full school year. Possible alternate option is 1 period per day for 2 full school years.



Industry Sector – Health Science & Medical Technologies

COURSE NO: 3150
TITLE: ANATOMY & PHYSIOLOGY (D)
CAREER PATHWAY: Patient Care
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Anatomy & Physiology
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Personal Care Aide
O*NET- SOC CODE: 39-9021.00
HOURS: 180
CALPADS COURSE CODE: 2655
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This course has been designed for students who plan to matriculate to a pre-medical, nursing, physical therapy, kinesiology, sports medicine, exercise physiology, veterinary sciences or any career in the medical field. Anatomy and Physiology includes an intensive coverage of the body as an integrated whole. It will provide information about the structure and function of all of the body organ systems that make up the human body. The students will be reintroduced to basic lab techniques and will be given many opportunities to practice them throughout the course.

PREREQUISITE: Completion of Biology (P).

COURSE NO: 9568 & 9570
TITLE: INTRODUCTION TO MEDICAL CAREERS (G) (DE)
CAREER PATHWAY: Patient Care
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Medical Terminology
CREDIT: 10

START DATE: Fall 2016
JOB TITLE: Medical Records & Health Information Technician
O*NET- SOC CODE: 29-2071.00
HOURS: 180
CALPADS COURSE CODE: 7920
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This course provides students the opportunity to explore careers in health care while gaining an understanding of the language of medicine through the study of basic word structures and anatomical, pathological, and operative terms used within the body systems. Instruction includes history of health care, study and exposure to health careers, career planning, terminology, ethics, wellness vs. illness, and safety. This course will also guide the students to a Health Career CTE class that provides entrance level job skills. Integrated throughout the course are Career Technical Education standards, which include communication, ethics and interpersonal skills, critical thinking and problem solving, safety, technology, and other employment skills. Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

COURSE NO: 9549/9559
TITLE: HEALTHCARE OCCUPATIONS / PATIENT CARE CAREER (G)
PATHWAY: Patient Care
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Healthcare Occupations
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Medial Assistant
O*NET- SOC CODE: 31-9092.00
HOURS: 360
CALPADS COURSE CODE: 7922
COURSE LEVEL: Capstone

Course Description: These two courses must be taken simultaneously. The CTE Health Occupations program gives students the opportunity to participate in an on-site Community Classroom experience in a local hospital, professional medical or dental office, or skilled nursing facility to observe/learn entry-level skills necessary for employment in their specific field of career interest. Students will receive valuable hands-on experiences that will teach them how to deliver safe, effective, quality healthcare. Students will gain the knowledge and skills to make informed career choices in the healthcare field and will be provided an opportunity to become certified in CPR and First Aid. If a student has completed this full year course as a Junior and wish to acquire another year of community classroom experience, you may take course number: 9565

PREREQUISITE: Anatomy & Physiology or AP Biology with additional coursework

DURATION: 2 periods per day.

COURSE NO: 9557/9558
TITLE: THERAPEUTIC SERVICES / PATIENT CARE (G) (DE)
CAREER PATHWAY: Patient Care
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Therapeutic Services **CREDIT:**
10

START DATE: Prior to 2014
JOB TITLE: Physical Therapist Aide
O*NET- SOC CODE: 31-2022.00
HOURS: 360
CALPADS COURSE CODE: 7922
COURSE LEVEL: Capstone

COURSE DESCRIPTION: These two courses must be taken simultaneously. This class is designed to prepare students for an advanced education in healthcare or to prepare them for an entry level profession in the field. Areas of study include: Education requirements for various healthcare careers, CPR and First Aid certification and training, musculoskeletal conditions, wound care and biohazard protocol, body systems, musculoskeletal anatomy and injuries, treatment of musculoskeletal injuries, therapeutic modalities, exercise science, nutrition, and general employment skills. During the second semester, students are placed in a "community classroom" jobsite where they will learn and work in a healthcare setting here in Red Bluff. Students will be able apply for a position in physical therapy, chiropractic, medical office, fire department or health club. If a student has completed this full year course as a Junior and wish to acquire another year of community classroom experience, you may take course number:

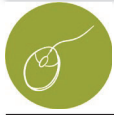
PREREQUISITE: Anatomy & Physiology or AP Biology with additional coursework

DURATION: 2 periods per day.

COURSE NO: 9225
TITLE: EMERGENCY MEDICAL TECHNICIAN (DE)
CAREER PATHWAY: Emergency Response (Pathway 233)
GRADE LEVEL: 12
CALPADS COURSE TITLE: First Responders Basic
CREDIT: 10

START DATE: Fall 2017
JOB TITLE: EMT
O*NET- SOC CODE: 29-2041.00
HOURS: 180
CALPADS COURSE CODE: 8422
COURSE LEVEL: Capstone

COURSE DESCRIPTION: The course provides the student with an outline of the EMS system, introduces assessment skills, as well as provides pathophysiology of common neurological, respiratory, and cardiac related emergencies. An intensive course to assist the student with developing skill in recognition of symptoms of illness and injuries, and proper procedures in emergency care. The course is a training course for emergency medical technicians performing as ambulance attendants. It covers techniques of emergency medical care presently considered within the responsibilities of the emergency medical technician, and emphasizes the development of student skills in recognition of symptoms of illnesses and injuries and proper procedures of emergency care. Emphasis is placed on patient assessment, communication, ambulance operations, and patient care in accordance with the California State Emergency Medical Services Agencies. Upon successful completion of the course and the statewide written and skills examination, the students are encouraged to submit their application to Northern California Emergency Medical Services, Inc. for certification. This is a dual enrolled course through Shasta College and students will earn college credits.



Industry Sector – Information & Communication Technologies

COURSE NO: 8064 & 8164 (DE)
TITLE: EXPLORING COMPUTER SCIENCE/ECS (G)
CAREER PATHWAY: Information Support & Services
GRADE LEVEL: 9 FRESHMAN
CALPADS COURSE TITLE: Intermediate Support Services
CREDIT: 10

START DATE: Fall 2018
JOB TITLE: Computer Systems Analyst
O*NET- SOC CODE: 15-1121.00
HOURS: 180
CALPADS COURSE CODE: 8111
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This course orients freshman to the RBHS' computer network and the set-up of their Google account. Instruction includes use of Google Apps and Classroom, internet safety, and introduction to entry level computer science topics (such as computing, game design, 3D modeling and printing, electronics and Arduino, robotics and beginning programming). Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

PREREQUISITE: None

COURSE NO: 9020
TITLE: ADVANCED ROBOTICS (G)(DE)
CAREER PATHWAY: Software & Systems Development
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Advanced Systems Programming
CREDIT: 10

START DATE: 2018
JOB TITLE: Robotics Engineers
O*NET- SOC CODE: 17-2199.08
HOURS: 180
CALPADS COURSE CODE: 8132
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This capstone course will consist of the students designing, building and programming of Vex robots. Student teams will be competing in the Nor-Cal Vex Robotics Competition League. Class time will be dedicated to strategizing, building, programming and practicing for the competitions. Students will work collaboratively and use the Engineering Design Process that uses a series of steps to design a solution for problem solving. The second semester class will engage and challenge students to explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students will develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

PREREQUISITE: Earn a C or better in CSP or CSA.

COURSE NO: 8067 & 8069 (DE)
TITLE: COMPUTER SCIENCE PRINCIPLES/CSP (G)(DE)
CAREER PATHWAY: Software & Systems Development
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Computer Programming for Solving Applied Problems
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Computer Programmer
O*NET- SOC CODE: 15-1131.00
HOURS: 180
CALPADS COURSE CODE: 8131
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: Computer Science Principles introduces students to the foundational concepts of the field and challenges them to explore how computing and technology can impact the world. Units include game design with block coding, web design and development, App development, programming with Python, robotics/automation, art/fashion/electronics in computing and 2D/3D game development using a game engine. Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

PREREQUISITE: Students should have completed ECS with a C or better.

COURSE NO: 8131 & 8135 (DE)
TITLE: AP COMPUTER SCIENCE A/AP CSA (DE)
CAREER PATHWAY: Software & Systems Development
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: AP Computer Science A
CREDIT: 10

START DATE: 2016
JOB TITLE: Software Developer, Applications
O*NET- SOC CODE: 15-1132.00
HOURS: 180
CALPADS COURSE CODE: 8132
COURSE LEVEL: Capstone

COURSE DESCRIPTION: No background in programming is needed for this capstone course. AP CSA introduces students to computer science with topics that include problem solving, design strategies and methodologies, data structures, algorithms and analysis of solutions. Using Java, the course emphasizes both object oriented and design level programming. This course is aligned with the College Boards AP standards and recognized by many universities and colleges. Students who receive a grade bump will have the opportunity to take the AP CS test. (AP scores of 3 or better allow students to skip Intro to Programming classes at most colleges.) Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

PREREQUISITE: Students for the capstone course should be enrolled in or have successfully completed Int. Math, or received instructor's approval (Mr. Twitchell).



Industry Sector – Manufacturing & Product Development

COURSE NO: 9210
TITLE: AG MECHANICS I
CAREER PATHWAY: Ag Mechanics, (Welding & Material Joining)
GRADE LEVEL: 9-10
CALPADS COURSE TITLE: Introduction to Agricultural Mechanics
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Farm/Ranch Hand
O*NET- SOC CODE: 45-2092.02
HOURS: 180
CALPADS COURSE CODE: 7120
COURSE LEVEL: Introductory

COURSE DESCRIPTION: Introductory Agricultural Mechanics courses provide theory and hands-on experiences that provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. The student will build projects designed to teach safe and proper use of common hand tools and power tools. Other areas covered will be tool identification, wood and metal projects, forge works, sharpening of tools and plumbing.

COURSE NO: 9152
TITLE: AG MECHANICS II
CAREER PATHWAY: Ag Mechanics, (Welding & Material Joining)
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Agricultural Welding
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Equipment Service Technician
O*NET- SOC CODE: 49-3041.00
HOURS: 180
CALPADS COURSE CODE: 7121
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This courses is a beginning welding class that focuses on all phases of the welding process with electric arc, acetylene and metal inert gas (MIG) welding as related to agricultural structures and industry.

PREREQUISITE: Complete Ag Mechanics I or successful completion of Metals I.

COURSE NO: 9114
TITLE: AG MECHANICS III
CAREER PATHWAY: Ag Mechanics, (Welding & Material Joining)
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Fabrication & Construction
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Maintenance/Repair Worker
O*NET- SOC CODE: 49-9071.00
HOURS: 180
CALPADS COURSE CODE: 7121
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This course builds on Ag Mechanic II and helps students further develop their skills and knowledge related to welding methods and metal fabrication.

PREREQUISITE: Complete Ag Mechanics II.

COURSE NO: 9116 & 9236 (DE)
TITLE: AG MECHANICS IV (DE)
CAREER PATHWAY: Ag Mechanics, (Welding & Material Joining)
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Fabrication & Construction
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Welder
O*NET- SOC CODE: 51-4121.06
HOURS: 180
CALPADS COURSE CODE: 7122
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This course builds on Ag Mechanic III and includes projects in advanced metal fabrication and welding. Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

PREREQUISITE: Complete Ag Mechanics III.

COURSE NO: 8133 & 8134 (DE)
TITLE: INTRODUCTION TO MANUFACTURING (DE)
CAREER PATHWAY: Machining & Forming Technologies
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Manufacturing – Comprehensive
CREDIT: 10

START DATE: Fall 2016
JOB TITLE: Helper – Production Worker
O*NET-SOC CODE: 51-9198.00
HOURS: 180
CALPADS COURSE CODE: 8220
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This year long course provides students with an introduction to the manufacturing environment. The student is introduced to the safe use of basic hand and power tools, and the operations of the manual lathe and mill. Introduction to the numerically controlled machining and forming processes are also covered. This course introduces students to the various methods used to process and transform materials. Processing techniques covered usually include casting, forming, separating, assembling, and finishing and may also include an overview of management techniques in planning, organizing, and controlling various segments of the manufacturing process, including design, engineering, production, and marketing. The course introduces students to career opportunities pertaining to processing and production of goods. Safety and maintenance will be an integral part of the instruction. Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

COURSE NO: 9316
TITLE: MACHINE FORMING TECHNOLOGIES
CAREER PATHWAY: Machining & Forming Technologies
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Machining & Forming Technologies
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Maintenance Worker - Machinery
O*NET- SOC CODE: 49-9043.00
HOURS: 180
CALPADS COURSE CODE: 8221
COURSE LEVEL: Capstone

COURSE DESCRIPTION: Projects will involve bonding and forming sheet metal products, mil and lathe processes, foundry casting and forging processes, and electric arc welding. Some examples of projects done in the class are the production of a Chess pieces, Soft Jaws for machining vice , machinist vise, Pin Wheel, sheet metal boxes with lids, and metal casting or polymer molding. This course teaches the use of the numerically controlled lathe and mill, horizontal mill in order to complete various projects. Some examples of projects done in the class are the production of a lathe bat, CNC mill nameplate and Domino set, machinist's tools and a project for the state fair. This course may meet one year of the math requirement for graduation.

COURSE NO: 9233
TITLE: CNC MACHINIST & MANUFACTURING PROFICIENCY
CAREER PATHWAY: Machining & Forming Technologies
GRADE LEVEL: 11-12
CALPADS COURSE TITLE: Advanced/Specialized Machining & Forming Technologies
CREDIT: 10

START DATE: Fall 2017
JOB TITLE: Computer Controlled Machine Tool Operator
O*NET- SOC CODE: 51-4011.00
HOURS: 180
CALPADS COURSE CODE: 8221
COURSE LEVEL: Capstone

COURSE DESCRIPTION: Students will become proficient at production and manufacturing based skills in machining, metal forming, CAM programming, project management, lean manufacturing, and quality control. Course is available to Juniors and Seniors who have completed Machining/Forming Technologies a B- or better grade. Develop students that have real life production level skill in CNC Machining, CNC Material Forming, and Product Assembly. Develop students with skills at a proficiency level in CAM CNC Programming, Hand CNC Programming/Editing. Develop students with Project Management skill and demonstrated capability to manage Project Initiation, Project Planning, Project execution, Project Control, Project Closing. Develop students that demonstrate capabilities at a proficiency level in Lean Manufacturing techniques and implementation. Course content: Students will created projects for school and sale through Spartan Store as well as possible retail outlets utilizing all shop equipment and previous knowledge. Possible additions is to actually produce production product for local area small businesses and offload work.

PRE-REQUISITE: Available to juniors and seniors who have completed Machining/Forming Technologies with a B- or better grade.

COURSE NO: 7045 & 7047
TITLE: Graphic Production (F) (DE)
CAREER PATHWAY: Graphic Production Technologies
GRADE LEVEL: 9-12
CALPADS COURSE TITLE: Intermediate Graphic Production Technologies
CREDIT: 10

START DATE: Fall 2023
JOB TITLE: Graphic Designer
O*NET- SOC CODE: 27-1024.00
HOURS: 180
CALPADS COURSE CODE: 8210
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: Students will be introduced to the principles, skills, and techniques used for computer graphics through hands-on computer based projects using the Adobe Creative Suite group of programs, which includes Illustrator, Photoshop, InDesign, Flash, Fireworks, and Pixel Bender. In addition, other Internet based programs and portable apps will be explored. Combining creative skills with computer skills, students will complete project-based multi-media publications, including a culminating final design portfolio. Students who successfully complete Graphic Production will be prepared to contribute immediately in the collaborative and team-based RBHS classes of Bluffer, Yearbook, and school Print Shop.

COURSE NO: 7046
TITLE: Adv Graphic Production (F)
CAREER PATHWAY: Graphic Production Technologies
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Advanced Graphic Production Technologies
CREDIT: 10

START DATE: Fall 2023
JOB TITLE: Graphic Designer
O*NET- SOC CODE: 27-1024.00
HOURS: 180
CALPADS COURSE CODE: 8211
COURSE LEVEL: Capstone

COURSE DESCRIPTION: Students will use Adobe Creative Cloud software along with other digital design software to create designs for print. Students will take designs and print to t-shirt using embroidery machines, heat press transfers, and vinyl stickers. Students will work in the school's print shop to produce digital designs and materials for class curriculum, school clubs, and extracurricular activities.

PREREQUISITE: Students must have completed a full year of Graphic Production with a "C" or higher.



Industry Sector – Building & Construction Trades

COURSE NO: 9227

TITLE: INTRODUCTION TO BUILDING & CONSTRUCTION TRADES

CAREER PATHWAY: Residential & Commercial Construction

GRADE LEVEL: 9-12

CALPADS COURSE TITLE: Introduction to Building & Construction Trades

CREDIT: 10

START DATE: Fall 2017

JOB TITLE: Construction Laborer

O*NET- SOC CODE: 47-2061.00

HOURS: 180

CALPADS COURSE CODE: 7341

COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This course is intended to be an introductory course focusing on the foundational skills needed in the construction trades and is required for enrollment in advanced career and technical education courses in the Building and Construction Trades Sector. It will include the study of safety, career opportunities, hand and power tools, planning and design, applicable mathematics, blueprint reading, component nomenclature, trade vocabulary, residential and commercial construction standards, construction manufacturing standards, and specialized skills. Competencies related to each standard in the sector are taught.

COURSE NO: 9231

TITLE: RESIDENTIAL & COMMERCIAL CONSTRUCTION

CAREER PATHWAY: Residential & Commercial Construction

GRADE LEVEL: 10-12

CALPADS COURSE TITLE: Residential & Commercial Construction

CREDIT: 10

START DATE: Fall 2017

JOB TITLE: Construction Carpenter

O*NET- SOC CODE: 47-2031.01

HOURS: 180

CALPADS COURSE CODE: 7342

COURSE LEVEL: Capstone

COURSE DESCRIPTION: This course provides individuals with the intermediate skills and information specific to the residential and commercial construction industry. It comprises the study of fasteners and hardware, finishes and coatings, materials, installation techniques, new and emerging technologies, mapping and surveying, levels and transits, foundations and floors, walls and partitions, roof systems, electrical wiring, interior and exterior finishes, floor coverings, metal construction, heating and cooling, plumbing, concrete and brick masonry, insulation, glazing, maintenance, and landscaping.

PRE-REQUISITE: Introduction to Building & Construction Trades

COURSE NO: 9232

TITLE: CONSTRUCTION TECHNOLOGY

CAREER PATHWAY: Residential & Commercial Construction

GRADE LEVEL: 11-12

CALPADS COURSE TITLE: Construction Technology

CREDIT: 10

START DATE: Fall 2017

JOB TITLE: Construction Manager

O*NET- SOC CODE: 11-9021.00

HOURS: 180

CALPADS COURSE CODE: 7342

COURSE LEVEL: Capstone

COURSE DESCRIPTION: This course is comprehensive, building upon foundational skills learned in an introductory class. The course will focus on all aspects of the building process, including site layout/survey, foundations, masonry, floor systems, framing, roofing, exterior finishing, electrical, HVAC, waste systems and plumbing. The course introduces advanced construction concepts and practices as well as management and production practices in current use in the construction industry.

PRE-REQUISITE: Introduction to Building & Construction Trades



Industry Sector – Transportation

COURSE NO: 9202
TITLE: AUTOMOTIVE SERVICE I
CAREER PATHWAY: Systems Diagnostics Service & Repair
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Introduction to Automotive
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Automotive Service Technician
O*NET- SOC CODE: 49-3023.00
HOURS: 180
CALPADS COURSE CODE: 8531
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: The automotive service class provides basic life skills for current and future student drivers and vehicle owners. These life skills will help the student as a consumer throughout the course of vehicle ownership to better understand vehicle systems and the industry as a whole. The course provides training and the necessary skills, knowledge, and hands-on experiences for basic maintenance and repair of personal vehicles. Graduates of this program should have basic knowledge to diagnose service, repair and make adjustments on various automotive systems using current industry-level test equipment, resources and tools.

PRE-REQUISITE: Auto Upkeep.

COURSE NO: 9303 & 9252 (DE)
TITLE: AUTOMOTIVE SERVICE II (DE)
CAREER PATHWAY: Systems Diagnostics Service & Repair
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Advanced Automotive Services
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Automotive Specialty Technician
O*NET- SOC CODE: 49-3023.02
HOURS: 360
CALPADS COURSE CODE: 8532
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This is a two period class. The automotive service class provides basic life skills for current and future student drivers and vehicle owners. These life skills will help you as a consumer throughout the course of vehicle ownership to better understand vehicle systems and the industry as a whole. The course provides training and the necessary skills, knowledge, and hands-on experiences for entry-level apprenticeship employment in the Automotive Repair and Transportation careers. Graduates of this program should have sufficient knowledge to diagnose service, repair and make adjustments on various automotive systems using current industry-level test equipment, resources, and tools. An emphasis is placed on electrical, electronics, and computer based skills. Students will be offered the opportunity to dual enroll through Shasta College to earn college credits.

PREREQUISITE: 16 years of age or older and Auto Service I.

COURSE NO: 9205
TITLE: AUTOMOTIVE TECHNICIAN
CAREER PATHWAY: Systems Diagnostics Service & Repair
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: Automotive Mechanics, Comprehensive
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Automotive Mechanic
O*NET- SOC CODE: 49-3023.01
HOURS: 360
CALPADS COURSE CODE: 8532
COURSE LEVEL: Capstone

COURSE DESCRIPTION: The Automotive Community Classroom is designed to provide an off campus work environment for students to acquire skills, knowledge, and abilities in entry-level apprenticeship employment in the Automotive Repair and Transportation careers. Students will spend two hours per day four days each week working in a local automotive business within the community, providing the student with a "real world" work experience setting. The class is offered after lunch during periods 5-6 for experienced automotive students. This class also offers students local employment opportunities in the automotive transportation industry. Most community classroom students are hired by their employers as paid employees by the start of the second semester. Certain restrictions apply. This is a two period class.

PREREQUISITE: 16 years of age or older and a C or better in Automotive Service II.

Industry Sector – Multiple Industry Sectors (MIS)

COURSE NO: 9885
TITLE: GENERAL WORK EXPERIENCE EDUCATION (GWEE)
CAREER PATHWAY: Multiple Industry Sectors (MIS)
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: General Work Experience Education (GWEE)
CREDIT: 10

START DATE: Prior to 2014
JOB TITLE: Various
O*NET- SOC CODE: Various
HOURS: 180
CALPADS COURSE CODE: 7003
COURSE LEVEL: Concentrator

COURSE DESCRIPTION: This course enables students to become productive, responsible individuals through supervised, paid employment experiences. GWEE is an instructional course, where students will acquire general and specific occupational and employability skills through a combination of supervised paid employment in any occupational field along with classroom related instruction. The rationale for having GWEE is the changing nature of work in our society, which requires students to develop appropriate work habits and attitudes that may be transferred to a variety of employment situations. (5 semester credits allowable each semester with a maximum of 20 semester credits)

PREREQUISITE: Student must have a job and be receiving a wage. Students must be in the 11th or 12th grade. Students must also anticipate working a minimum of 80 hours per semester.

COURSE NO: 9889
TITLE: CTE WORK EXPERIENCE EDUCATION (CTWEE)
CAREER PATHWAY: Multiple Industry Sectors (MIS)
GRADE LEVEL: 10-12
CALPADS COURSE TITLE: CTE Work Experience Education
CREDIT: 10

START DATE: 2018-19
JOB TITLE: Various
O*NET- SOC CODE: Various
HOURS: 180
CALPADS COURSE CODE: 7003
COURSE LEVEL: Capstone

COURSE DESCRIPTION: This course reinforces and extends vocational learning opportunities for students through a combination of related classroom instruction and supervised paid employment. The main purpose of CTWEE is to develop and refine students' occupational competencies necessary to acquire future paid employment, to adapt to the employment environment, and to advance in an occupation. Students enrolled in CTWEE must have a worksite placement or employment that is related to a previous or concurrently enrolled Career Technical Education course of study. (5 semester credits allowable each semester with a maximum of 20 semester credits)

PREREQUISITE: Students must have completed a full year Introductory CTE course prior to or simultaneously to enrollment in CTWEE. Students must have a job and be receiving a wage. Students must be in the 11th or 12th grade. Students must also anticipate working a minimum of 80 hours per semester.
