

Computer Skills & Production

Accounting & Finance I, II - Mrs. Mayer

Accounting I: introduces students to the fundamentals of accounting, including key terms, concepts, and journal entries needed to start and operate a business. Students apply their learning through hands-on simulations that reinforce real-world applications.

Accounting II: builds on this foundation by guiding students through the full accounting cycle. Topics include paying bills, managing payroll, analyzing financial data, and making sound business decisions. Students apply their learning through hands-on simulations that reinforce real-world applications. Accounting Advanced Studies (AS): prepares students for real-world careers in accounting and finance. Students may earn an industry-recognized Bookkeeping certification and have the opportunity to participate in a professional internship, gaining hands-on experience working with real clients and businesses. This capstone course emphasizes accuracy, ethics, financial reporting, and career readiness.

Principles Of Business Pathways - Mrs. Mayer

Level 1: Principles of Business & Marketing, designed to build a strong foundation in business and marketing. Topics include business law, communication, customer relations, economics, information management, marketing, and operations. The course develops essential professional and workplace skills while introducing students to a variety of business careers.

Level 2: Principles of Business Management, where they explore customer relationship management, human resources, information and knowledge management, project management, quality management, risk management, and strategic management. Additional emphasis is placed on economics, finance, operations, and professional development.

Multimedia Communications - Mrs. Kingston

This program introduces students to various media technologies used in business of digital communications (mostly Graphics & Photography). Areas of study include elements and principles of design, media platforms, legal and ethical issues in project development, production tools and techniques, marketing concepts and social media, professional communications, and content creation. Practices incorporate an appreciation of alternative and culturally diverse perspectives essential in business communication.

Advanced Computer Science - Mr. Swain

This course is a year long course designed to provide students with the background knowledge and understanding of Computer Science Principles. This will enable them to understand and apply knowledge of the Academic Content Standards in Computer Science. Topics to be covered include: Algorithms and Programming, Computing Systems, Data and Analysis, Impacts of Computing, Networks, Internet, and Cyber Security in the Computer Science course.

Cyber Security - Mr. Swain

The Cybersecurity program is a two year pathway that provides students with the foundational knowledge of operating systems, networking and network operations, industry protocols and practices for securing computing systems, computer forensic concepts, and emerging technologies in cybersecurity. Students also have an opportunity to earn Industry Recognized Credentials (IRC's) via CompTIA A plus and Networking plus through LCSD's partnership with WNC.

CET- Mr. Swain

This course is a semester long course designed to provide students with the background knowledge and understanding of Computer Science Principles. This will enable them to understand and apply knowledge of the Academic Content Standards in Computer Science. Topics to be covered include: Algorithms and Programming, Computing Systems, Data and Analysis, Impacts of Computing, Networks, Internet, and Cyber Security in the Computer Science course.

Web Design- Mr. Swain

This course is a 2-year CTE program designed to provide students with the background knowledge and understanding of Web Design and Development. Year one students explore Front-End development with the fundamentals of HTML and CSS coding. Students will also explore responsive website design using Bootstrap. Year 2 Students take a deeper dive into back-end development with Javascript and JQuery. Students also explore career and college readiness skills, and career outlook for Web designers.

Medical Courses

Principles of Health Science - Mrs. Kuntz

Principles of Health Science provides an overview of the healthcare industry and prepares students for a variety of health careers. This is the prerequisite for Fernley High School's EMT, CNA, and Sports Medicine Programs. Students will receive instruction on the public healthcare system, human anatomy and physiology, medical terminology, and health career requirements.

EMT Emergency Medical Technician - Mrs. Kuntz

This senior-level dual credit course prepares students for EMT certification through the State of Nevada EMS Office and the National Registry of EMTs (NREMT). Students build the knowledge and hands-on skills needed to provide emergency care and qualify for national certification testing.

Community Health Science - Mrs. Kuntz

This dual credit course with WNC, available to juniors and seniors, introduces students to disease prevention, health promotion, and careers in public health. Students gain insight into how communities stay healthy while getting a head start on college.

Nursing Assistant Training - Mrs. Altemeyer

After completing Principles of Health Science, you will have the opportunity to enroll in this exciting, hands-on course that prepares you for a future in the medical field. In this year long program, you will: Learn real-world nursing skills through interactive labs and classroom instruction. Earn a Certificate of Completion to jumpstart your resume. Qualify to take the Nevada State Exam and become a Certified Nursing Assistant (CNA). Gain clinical experience with a 40-hour rotation in a professional healthcare facility during Semester II.

Sports Medicine - Mr. Wilson

Learn hands-on clinical skills after completing prerequisite classes of either Health Science I and/or Medical Terminology.



Computer Skills & Production

- Accounting & Finance I, II, III
- Principles of Business Pathways
- Multimedia Communications
- Advanced Computer Science
- CET (req for all students)
- Cyber Security

Medical Courses

- Principles of Health & Science
- EMT
- Sports Medicine
- Nursing Assistant Training
- Community Health Science

Agriculture Education

- Principles of Agriculture
- Animal Science

Skilled & Technical Resources

- Design Drafting I, II
- Electronics Technology I, II
- Building Construction Tech I, II
- Welding I, II

EDUC

- EDUC 110

Skilled & Technical Resources

Electronics Technology I, II - Mr. Kingston

This course familiarizes students with the fundamentals of electronics. It explains the fundamental concepts of electricity used in many applications especially controls systems. A \$25 fee is required per year.

Design Drafting I, II - Mr. Kingston

This course introduces the student to the fundamentals of mechanical and architectural drawing as related to Computer Aided Drafting and Design (CADD). It provides students with the knowledge and practice required to produce and analyze multi-view drawings, pictorial drawings and dimensioning.

Building Construction Tech I & II - Mr. Grace

This course is intended to provide students with the basic knowledge and skills necessary to design, construct and finish furniture and/or cabinets in the woodworking industry. Through the course activity, the student will gain an understanding of safety procedures, machine operation, and industrial application.

Welding I, II - Mr. Kryzsiak

Our goal in the Welding Program at Fernley High School is to have students enroll in our program for the full three years. This is to insure the student can move on each year to Welding II and Welding Fabrication in the third year. All students will be required to complete the class with a "C," or better to continue in our program. At the end of the student's 2nd year, they will be required to test and pass an Employability Skills Exam and a Comprehensive Welding Exam. We feel this will help strengthen, improve and possibly help lead towards college and/or career success in welding.

Lab Fee: \$20.00 Each student will receive a pair of OSHA approved safety glasses. Students will be able to take the attachment on and off any headgear we have for their protection and take home. The remaining portion of the lab fee is used to cover a minimal welding rod charge, different gasses we use in the lab, Plasma Cutting consumables, grinding/wire wheel discs, metal cutting blades, band saw blades, etc... We will have lab coats, coveralls, arc welding/gas welding hoods, clear grinding shields, as well as all other shop tools. We have lockers on a first come first serve basis. If a student would like, they may also bring in their own welding equipment, but not a requirement.

Agricultural Education

Principles of Agriculture - Ms. Botts

Agriculture education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. Through agricultural education, students are provided opportunities for leadership development, personal growth and career success. Agricultural education instruction is delivered through three major components.

Our program offers a wide range of opportunities. From Career readiness to agricultural science, we offer it all. Students will have the opportunity to participate in contests, travel the state and country, get career building experience and more! Students will get the opportunity to work in the greenhouse learning the basics of greenhouse management and hydroponics.

Animal Science - Ms. Botts

Animal science is the biological science and management of domestic livestock, including beef cattle, horses, sheep, swine and companion animals. Students learn the science, art and practical methods of caring for, improving and managing livestock and companion animals.

EDUC 110 - Mr. Whitehead

The Teaching and Training program provides students with an introduction to the principles of education. This program addresses human development, care, teaching, and learning, so that students can guide the development of learners in an educational setting. Areas of study include planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements for teaching

WORK BASED LEARNING

Work-Based Learning (WBL) provides students with real-world experiences through internships, job shadowing, mentorships, and other career-related opportunities with local businesses and organizations. It helps students apply what they learn in the classroom to real work environments, building valuable skills and career awareness. In Lyon County School District, WBL is important because it connects students to local industries, supports career readiness, and helps develop a skilled workforce for our communities. It also strengthens partnerships between schools and employers, creating meaningful pathways from education to employment.

DUAL ENROLLMENT & IRC'S

- Building and Trades Construction Technology- Students have the opportunity to earn OSHA10 and OSHA30 certifications
- Electronic Technology-- Students have the opportunity to earn OSHA10 and OSHA30 certifications
- Drafting and Design-- Students have the opportunity to earn OSHA10 and OSHA30 certifications
- Welding Technology-- Students have the opportunity to earn OSHA10, OSHA30, and American Welding Society (AWS) certifications
- Accounting and Finance/Business Mgt--Students who complete 2 years have the option to dual enroll in MGT 201, IS101, and MKT 210 to earn a skills certificate from Western Nevada College
- Emergency Medical Tech-- Prereq of Principals of Health Science, students must be a senior due to licensing requirements---students can earn Nevada Emergency Medical Technician License
- Community Health Worker-- Prereq of Principals of Health Science--students can earn Nevada Community Health Worker License
- Certified Nursing Assistant--Prereq of Principals of Health Science, students must be juniors or seniors due to licensing requirements---Students will be dual enrolled with Western Nevada College, and can earn Certified Nursing Assistant License
- Career and Technical Student Organizations (CTSO's)
 - Future Farmers of America (FFA)--Students must be enrolled in Principles of Ag Science, Animal Systems, Food Science, or Vet Science
 - Skills USA--Open to any CTE Student
 - Volunteer Income Tax Assistance (VITA)--Open to any student enrolled in Accounting and Finance or Business Management

