

## Course Descriptions

Courses are classified by subject as they exist at West Hills College Coalinga. All courses within an area usually count toward a major in that area. Other institutions may classify their courses differently. Transfer students should consult the catalog of the four-year college to which they intend to transfer for its classification of identical or comparable courses.

**The 2018-2019 course catalog requires a correction. The following courses should be added or corrected as noted:**

Administration of Justice (AOJ) . . . . .	1
American Sign Language (ASL) . . . . .	1
Animal Science (ASCI) . . . . .	2
Athletics (ATHL) . . . . .	2
Child Development (CD) . . . . .	2
Computer Information Systems (CIS) . . . . .	2
Crop Science (CRPSCI) . . . . .	3
Diesel Technology (DT) . . . . .	4
Food Science & Safety (FSS) . . . . .	5
Interdisciplinary Studies (IS) . . . . .	6
Kinesiology (KINES) . . . . .	6
Non-Credit (NC) . . . . .	7
Vocational Nursing and Psych T (VNPT) . . . . .	7

### Administration of Justice (AOJ)

#### **AOJ 007                      Legal Aspects of Corrections                      (3)**

*Class Hours:* 54 Lecture

*Advisory(s):* ENG 051A

AOJ 007 provides students with an awareness of the historical framework, concepts and precedents that guide correctional practice. Course material will broaden the individual's perspective of the corrections environment, the civil rights of prisoners and responsibilities and liabilities of corrections officials. {This course has been identified by the Correctional Peace Officer Standards and Training Board of the Department of Corrections, California Youth Authority and California Correctional Peace Officers Association to fulfill educational requirements of the CPOST Certificate for apprentices hired after July 1, 1995 by the C.D.C. and C.Y.A.}

### American Sign Language (ASL)

#### **ASL 001                      Intro to American Sign Language: Level 1                      (4)**

*Class Hours:* 72 Lecture

ASL 001 covers the beginning fundamental principles of American Sign Language a visual/spatial language used by Deaf people in the United States and Canada. ASL introduces basic information and cultural/ historical background about the Deaf community and Deaf culture. This course is recommended for students who encounter Deaf people in their working environment, or who are majoring in American Sign Language/Deaf Studies. ASL 001 is a prerequisite for students who wish to enter an Interpreter Preparation Program. Students are expected to attend outside Deaf events at their own expense.

#### **ASL 002                      Intermediate American Sign Language: Level 2                      (4)**

*Class Hours:* 72 Lecture

*Prerequisite(s):* ASL 001

ASL 002 is designed to introduce students to the second semester of ASL. Students will engage in conversation using ASL at a level expected from intermediate signers. Students will expand conversational skills such as turn-taking, discussion of culturally appropriate topics and leave-taking. Students will also learn how to relate simple experiences and events using ASL. This course is recommended for students who encounter Deaf people in their working environment, or who plan on majoring in American Sign Language/ Deaf Studies. Students are expected to attend outside Deaf events at their own expense.

## Animal Science (ASCI)

### **ASCI 012 Introduction to Animal Science (3)**

*Class Hours: 36 Lecture | 54 Laboratory*

ASCI 012 is a scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. Emphasis on the origin, characteristics, adaptation and contributions of livestock to the modern agriculture industry. Field trips may be required.

## Athletics (ATHL)

### **ATHL 007 Fundamentals of Volleyball (2)**

*Class Hours: 108 Laboratory*

ATHL 007 is designed to provide fundamental instruction for those interested in competing in volleyball at the community college level.

## Child Development (CD)

### **CD 012B Principles and Practices of Ece Field Wo Early Childhood Practicum-Field Exp (3)**

*Class Hours: 18 Lecture | 108 Laboratory*

**Prerequisite(s)** CD-5, CD-10, CD-12A, and CD-16:

**Corequisite(s):** CD 012A (Required, Previous or concurrent).

**Advisory(s):** ENG 051A and Negative TB test (Recommended, Previous or concurrent).

CD 012B offers an opportunity to demonstrate developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, to develop professional behaviors, and build a comprehensive understanding of children and families. Students will be expanding their knowledge of curriculum content by designing, implementing, and evaluating their teaching experiences and the value of their interactions used in the classroom and with the children involved. Both positive and negative experiences will be evaluated and will be used for improvement and validation.

## Computer Information Systems (CIS)

### **CIS 020 Digital Image Production - Photoshop ACA (3)**

*Class Hours: 54 Lecture*

*P/NP*

CIS 020 introduces the principles of composition, designed typography for digital imagery and photography. Students explore Adobe Photoshop's extensive tools and learn the fundamentals of image editing and transformation; applying filters, masks and color correction; and preparing files for export and printing. Frequent critiques foster creativity, reinforce the principles of effective design and address current industry standards. Enrollment includes practices and the Adobe Certified Associate Photoshop exam.

### **CIS 022 Digital Graphic Production - Illustrator ACA (3)**

*Class Hours: 54 Lecture*

*P/NP*

CIS 022 introduces the principles of digital illustration and vector graphs. Students explore Adobe Illustrator's extensive tools and learn the fundamentals of shapes, colors, effects and typography. Frequent critiques foster creativity, reinforce the principles of effective design and address current industry standards. Enrollment includes practice tests and the Adobe Certified Illustrator Photoshop exam.

### **CIS 022A Digital Motion Graphics (3)**

*Class Hours: 54 Lecture*

CIS 022A introduces the basic concepts of motion graphics with a focus on combining 2D graphics, video, typography and sound. Topics include composition and design, storyboarding, project planning, adding music and sound synchronization. Students learn to set keyframes on a timeline and work with transform properties, motion paths, masks, effects, and more.

**CIS 023 Digital Video Production (3)***Class Hours: 54 Lecture*

CIS 023 introduces the theory and practice of video production for a wide variety of distribution forms including broadcast television, the internet, product demonstrations, and corporate and educational videos. Students learn basic theory, grammar, and practice of video production and non-linear video editing. Students plan and assemble video, audio, images, and titles into a cohesive sequence that addresses project goals and target audience priorities. Using cameras and video editing software, students gain experience in lighting, capture, and assembly of video content. Frequent critiques foster creativity, reinforce the principles of effective design, and address current industry standards.

**CIS 024A Game Design Essentials (3)***Class Hours: 54 Lecture*

CIS 024A introduces the theory and practice of using Unity as a foundation tool to create and design projects and demos within the Unity game engine. These projects can be exported as multiple formats and will serve as the core result portraying the students proficiency within the Unity environment. A variety of design skills regarding level design, basic 3D modeling, lighting, animation, particle FX and UI creation will be created so that students will have a complete understanding of Unity as a design tool.

**CIS 025 Digital Audio Production (3)***Class Hours: 54 Lecture**P/NP*

CIS 025 Introduces the theory and practice of audio production for radio, television, game design, film, and digital recording applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Students gain experience recording, editing, mixing and mastering audio. Upon completion, students will have basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software.

**Crop Science (CRPSCI)****CRPSCI 008 Applications of Geospatial Technology (3)***Class Hours: 36 Lecture | 54 Laboratory*

CRPSCI 008 surveys the uses and applications of geospatial technologies in agriculture and related fields. The course focuses on GPS (Global Positioning System) and GIS (Geographic Information Systems) for data collection, navigation, recordkeeping, remote imagery, and analysis. Students gain hands-on experience using industry grade GIS software and GPS hardware.

**CRPSCI 017 Control and Sensor Systems in Ag (3)***Class Hours: 36 Lecture | 54 Laboratory*

CRPSCI 017 provides students with concepts of sensors and control systems. Fundamentals of GPS, GIS, telemetry, hydraulics, pneumatics, electronics and programming are covered as underlying technologies. The second portion of the course applies these technologies to autoguidance, variable rate, autonomous UAS, field sensors, fertigation and irrigation control systems, and livestock sensors. Hands-on activities include installation and use of these sensor and control systems.

**CRPSCI 018 Precision Ag Software (3)***Class Hours: 36 Lecture | 54 Laboratory*

CRPSCI 018 provides students with skills in the use of GIS (Geographic Information Systems) and FMIS (Farm Management Information Systems) software. Specific competencies include import/export, use of analytical tools, prescriptions, and creation of interpretative maps. Creation of an interactive web-based map and use of scripting or programming language such as Python are also covered.

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**CRPSCI 021 Orchard Production (3)**

*Class Hours: 36 Lecture | 54 Laboratory*

CRPSCI 021 will cover the production practices and systems for developing and maintaining a productive orchard. Topics, as applied to all permanent crops, will include the following: soil, water and salinity management; planning and evaluation of an orchard; genetic considerations; growth, development, and physiology; nutrient and water interactions; and pest management. The UC production manuals will be used as a textbook for course content. Lab exercises will focus on application of technology in orchard production practices.

**CRPSCI 023 Row Crop Production (3)**

*Class Hours: 36 Lecture | 54 Laboratory*

CRPSCI 023 covers the production systems and practices for a row crop production field. Varietal differences, transplant operations, cultural practices, irrigation, physiological and pest problems, harvesting and handling, and production costs will be covered. Content will be based on University of California publications. Lab activities provide hands-on experience with geospatial, sensor, and control technologies as applied to row crop production.

**Diesel Technology (DT)****DT 050 State Laws and Federal Regulations (3)**

*Class Hours: 54 Lecture*

DT 050 provides students with an understanding of California and federal motor vehicle traffic laws, highway traffic regulations, and driver's license laws needed to understand and demonstrate the ability to drive in accordance with laws and regulations.

**DT 052 Safe Operation Fundamentals (2)**

*Class Hours: 108 Laboratory*

DT 052 provides practical and theoretical instruction in the techniques needed to drive defensively and prevent accidents in spite of the incorrect actions of others and adverse conditions. Students are prepared to recognize and perform first aid treatment in dealing with major emergencies, both medical and accidental. The course also explains and demonstrates safe practices in using and selecting proper tools for the job, both in the shop and on the road.

**DT 053 Fork Lift Operations (1)**

*Class Hours: 54 Laboratory*

DT 053 provides practical and theoretical training in the operation of material handling equipment (forklift and pallet jack) and how it works. Student receives training while driving on a planned course, loading and unloading commercial vehicles and load securement, with a continuous emphasis on safe driving and operation. Students also develop their skills in minor maintenance for good pre-trip and post-trip inspection.

**DT 055 Trip Planning and Budgeting (3)**

*Class Hours: 54 Lecture*

DT 055 provides student with practical and theoretical training related to the planning of trips using a Rand McNally Road Atlas and finding the most effective and efficient routing between pickup and delivery points. The course will also include a review of basic math and industry math applications.

**DT 057 Job Prep Skills (1)**

*Class Hours: 18 Lecture*

DT 057 provides information on how to find available positions as well as improve job-seeking skills in order to apply for, and interview with both small and large transportation companies. Additionally, it provides information and resources on how to prepare appropriate documents (application, resume, and cover letter) for job search and to assist in the interview process.

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**DT 058 Operations of Commercial Vehicles I (3)**

*Class Hours: 18 Lecture | 108 Laboratory*

DT 058 provides practical and theoretical knowledge in the operation of two- and three-axle tractor trailer combinations on a driving range and highway. Student will develop the hand, eye, and foot coordination for shifting a 10-speed dual-range transmission. Additionally students will be oriented in California state laws pertaining to a commercial motor vehicle, which prepares them for the CDL Skills and Knowledge Test for the Class A license.

**DT 059 Operations of Commercial Vehicles II (3)**

*Class Hours: 162 Laboratory*

*Prerequisite(s): DT 058*

DT 059 provides practical and theoretical knowledge in the operation of five-axle commercial vehicles with a GVWR of 80,000 lbs. and lengths over 65 feet, including single and double trailers. Students will learn to operate various types of dual-range transmissions on the driving range and in real-life city and highway traffic. Students will receive 2,000 - 2,500 miles of road experience with empty and loaded trailers.

## Food Science & Safety (FSS)

**FSS 005 Food Safety Mgmt/App to Prod Systems (3)**

*Class Hours: 54 Lecture*

FSS 005 is an introduction to food safety principles with an overview of career opportunities, food safety technologies, environmental sources and transport mechanisms of food-borne pathogens, and the role of site conditions. An overview Good Agricultural Practices for farm production is included. Specific guidelines for key agricultural commodities are presented as well as regulations and monitoring Standard Operating Procedures (SOPs) and guidelines for food safety. Field trips may be required.

**FSS 010 Food Chemistry (3)**

*Class Hours: 36 Lecture | 54 Laboratory*

FSS 010 will provide an overview of the nutritional, chemical and physical properties of the major food constituents (e.g., proteins, lipids, carbohydrates, water, minerals). The importance of organic chemistry and biochemistry in food is explored. Laboratory covers methods of food analysis.

**FSS 015 Microbiology of Foods (4)**

*Class Hours: 54 Lecture | 54 Laboratory*

*Advisory(s): BIO 038 and CHEM 002A*

FSS 015 is a lecture and laboratory course designed to prepare students for work in the food processing sector to include the use of material and equipment and corresponding microbiological laboratory skills. The technological aspects of food and water operations is taught with a focus on sanitary inspection procedures and quality control principles. The isolation and identification of micro-organisms by cultural and biochemical techniques are taught.

**FSS 020 Agriculture Laws and Regulations (2)**

*Class Hours: 36 Lecture*

FSS 020 provides an introduction to the laws and regulations governing the agricultural industry with a focus on food safety. Topics include an overview of government agencies with responsibility to create and enforce laws and regulations to ensure a safe and abundant food supply, public and worker safety, insurance, labor and agriculture organizations, and environmental issues.

**FSS 025 Principles of Hazard Analysis & Critical (3)**

*Class Hours: 54 Lecture*

FSS 025 provides a review of Hazard Analysis and Critical Control Points (HACCP) food safety management systems as a systematic and science-based approach to food safety through the identification, monitoring and corrective control of critical hazards in food production facilities. The review will include the corresponding verification and validation processes necessary to prove that a food safety management system is scientifically valid by gathering evidence to assure that safe food products will be produced once the management system is implemented.

**FSS 030 Audits, Prev Controls & Prod Safety (3)**

*Class Hours: 54 Lecture*

FSS 030 will provide an introduction to food safety plans with applications to preventive controls for human foods and the produce safety rule. The knowledge and skills necessary to conduct an effective audit of food safety management systems will be developed to evaluate regulatory compliance, detect deficiencies, and implement corrective and preventative actions.

**FSS 035 Principles of Food Science (3)**

*Class Hours: 54 Lecture*

FSS 035 provides an introduction to the fundamentals of food science with an overview of food safety, technology and industry standards. Students will gain an understanding of the principles of food processing, preparation and storage. Food safety challenges and regulations will be reviewed.

**FSS 040 Facility Food Safety Management (3)**

*Class Hours: 54 Lecture*

*Advisory(s): FSS 025*

FSS 040 course topics include the development and management of food safety programs with focus on evaluation, documentation, pathogen tracking and crisis management. An introduction to Good Manufacturing Processes (GMPs) for facility management is provided. Specific application is made to manufacturing and processing facilities with emphasis on temperature control/cold chain, evaluation of alternative risk reduction strategies, HACCP principles, employee training and the audit process.

## Interdisciplinary Studies (IS)

**IS 020 Ensuring Transfer Success (1)**

*Class Hours: 18 Lecture*

IS 020 provides in-depth information and assistance with the transfer process from community college to 4-year colleges/universities. Given their academic and career objective, students will explore transfer requirements through active participation in research and planning. Lower-division major and general education requirements, college/university selection, admission procedures, application deadlines, financial aid and scholarship information will be covered.

**IS 051 Portfolio Development (1)**

*Class Hours: 18 Lecture*

*P/NP*

IS 051 prepares students for the opportunity to earn college WHCC course credit for prior learning acquired through on-the-job training, independent study, or volunteer and personal experiences. Students reflect on their learning experiences and develop a portfolio to showcase their learning and mastery of the material.

## Kinesiology (KINES)

**KINES 002 Intro to Sport & Exercise Psychology (3)**

*Class Hours: 54 Lecture*

KINES 002 introduces the study and application of psychological principles and foundations to sport and exercise across the lifespan and across activity contexts. This course is designed to promote an understanding of the concepts and applied principles of sport and exercise psychology. Findings and principles from the sport and exercise psychology literature will be applied to sport and physical activity participants, ranging from youth sport and community exercise programs to elite and world-class performers.

**KINES 046 Care & Prevention of Athletic Injuries (3)**

*Class Hours: 36 Lecture | 54 Laboratory*

KINES 046 is designed for prospective coaches, athletic trainers, and health and physical education instructors. Aids in the recognition, evaluation, and care of athletic injuries. Techniques in taping, prevention, and rehabilitation of injuries.

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## Non-Credit (NC)

**NC 120** **Beg Reading, Writing & Speaking Skills** (N/A)  
*Class Hours: 54 Lecture* P/NP

NC 120 is for students whose native language is not English. This course includes listening and speaking through correct grammatical use with an emphasis on developing conversation skills for everyday situations.

**NC 125** **Inter Read, Writing & Speaking** (N/A)  
*Class Hours: 54 Lecture* P/NP

ESL 125 is for students whose native language is not English but who can already speak basic English. This course continues conversation practice with an emphasis on increasing vocabulary, fluency and reading comprehension.

**NC 130** **Advanced Reading, Writing & Speaking** (N/A)  
*Class Hours: 54 Lecture* P/NP

ESL 130 is for students whose native language is not English. This course emphasizes advanced reading, grammar and sentence writing. This course prepares students for college level reading and writing.

**NC 135** **Adv Comm Skills for Life & Career** (N/A)  
*Class Hours: 54 Lecture* P/NP

ESL 135 is for students who have advanced ESL skills in reading, writing, and speaking. Students will practice communication skills necessary for career and life. This will be done through presentations, role playing, and mock interviews.

**NC 152A** **Citizenship/The Naturalization** (N/A)  
*Class Hours: 36 Lecture*

NC 152A is for legal residents who want to become citizens of the United States. The course provides an introduction to the naturalization process, clarifying eligibility requirements, forms and interview procedures, photo specifications, and the rights and responsibilities of U.S. Citizenship. In addition, this course will prepare the students to demonstrate their proficiency in writing, reading, and the understanding of the English language.

**NC 152B** **Citizenship/U.S. Hist & Government** (N/A)  
*Class Hours: 36 Lecture*

NC 152B is for legal residents who want to become citizens of the United States. This course prepares students for the U.S. Citizenship History and Government test requirements.

**NC 162** **High School Equivalency (HSE) Prep** (N/A)  
*Class Hours: 54 Lecture | 108 Laboratory* P/NP

NC 162 prepares individuals with the skills and knowledge base necessary to pass the HSE exam. Students review the examination content areas (language arts - reading and writing, mathematics, social studies, and science) with particular emphasis on writing and math. Instructors will assess individual skill levels to help the student focus on tutoring weaknesses into strengths.

## Vocational Nursing and Psych T (VNPT)

**VNPT 090** **Math for Medical Professions** (1)  
*Class Hours: 18 Lecture*

VNPT 090 is a basic skills math course designed primarily for students entering or enrolled in vocational training related to health care. The course focuses on the foundational math skills of addition, subtraction, multiplication and division of whole numbers, fractions and decimals. Students will build on basic computational math skills to solve conversation problems between different systems of measurement.

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