

Course Descriptions

Courses are classified by subject as they exist at Coalinga College. 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.

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Administration of Justice (AOJ)

AOJ 001	Intro to Criminal Justice	(3)
<i>Class Hours: 54 Lecture</i>		<i>P/NP</i>
<i>Advisory(s): ENG 001A (ENGL C1000) or ESL-001</i>		
<i>Transfers to: UC/CSU</i>		
<i>C-ID: AJ 110</i>		

Introduction to Criminal Justice

AOJ 001 introduces students to the criminal justice system in the United States. The focus of the course is on examining crime including the theoretical explanations of crime, community responses to crime, the components of the criminal justice system, and current challenges in law enforcement. Students learn the roles and functions of police, courts, and corrections and are introduced to the history and development of criminal law, legal processes, and sentencing and incarceration policies.

AOJ 003	Intro to Corrections	(3)
<i>Class Hours: 54 Lecture</i>		
<i>Transfers to: UC/CSU</i>		
<i>C-ID: AJ 200</i>		

Introduction to Corrections

AOJ 003 provides a history of and critical analysis of punishment, the various types of punishment, alternatives to punishment, and the impact of punishment on the criminal justice system, corrections, a critical examination of the types of correctional institutions and the clients housed in each institution, and an examination of contemporary correctional issues.

AOJ 004	Control & Supervision Inmates	(3)
<i>Class Hours: 54 Lecture</i>		
<i>Transfers to: CSU</i>		

Control & Supervision of Inmates

AOJ 004 offers an overview of supervision of inmates at the local, state and federal levels of correctional institutions. The issues of controlling and supervising inmates in a continuum from daily institutional life through emergency and crisis situations will be introduced and discussed. The course will emphasize the roles played by the correctional workers as well as the offenders. Topics will include inmate subculture, violence and effects of crowding on inmates and staff as well as coping techniques for correctional officers in the institutional environment. This will include legal issues of inmate supervision.

AOJ 006 Correct Interviewing & Couns. (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU*

Correctional Interviewing and Counseling

AOJ 006 is an overview of the techniques in interviewing and counseling available to practitioners in corrections. The student will learn the use of appropriate theories and confidence-building techniques used by correctional employees in client interviews and counseling. This is a course for students planning to enter or already employed within the Correctional Science field.

AOJ 007 Legal Aspects of Corrections (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU*

Legal Aspects of Corrections

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.}

AOJ 010 Principles & Proc of Crim Just (3)*Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: AJ 122*

Principles & Procedures of Criminal Justice

AOJ 010 provides an examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal utilizing statutory law and state and constitutional law precedents.

AOJ 012 Written Criminal Justice Comm (3)*Class Hours: 54 Lecture**Transfers to: CSU*

Written Criminal Justice Communications

AOJ 012 will cover ideas effectively in a simple, clear and logical manner in the various types of criminal justice systems reports, letters, memoranda, directives, and administrative reports. Emphasis on law enforcement and correctional terminology, organization of information and use of English; practice experience in note taking and report writing using standard law enforcement and correction forms; presentation of testimony in court.

AOJ 015X Occupational Work Experience**(1 - 8)***Class Hours: Work Experience**Transfers to: CSU***Occupational Work Experience**

Cooperative Work Experience Education (CWEE) develops skills and knowledge by integrating classroom study with planned, supervised work experience. It is based on the principle that well-educated individuals develop most effectively through an educational plan that incorporates work experience. Through these structured experiences, the students enrich their college studies, which enhance their total development. Occupational Work Experience is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes, and career awareness in the field of the student's major. Students may earn up to 8 units per semester for a maximum of 16 total units. Credits are awarded for paid or voluntary work. For every 75 hours of paid work completed within the semester, 1 unit of credit is awarded. For every 60 hours of volunteer work completed within the semester, 1 unit of credit is awarded. Occupational Work Experience credits are counted as electives toward an Associate's Degree at West Hills College Coalinga and are transferable to four year universities (for specific transfer eligibility, please contact a counselor or an advisor).

AOJ 016 Human & Comm Rela in Crim Just**(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: AJ 160***Human and Community Relations in Criminal Justice**

AOJ 016 examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values in culture, religion, and law.

AOJ 020 Criminal Law**(3)***Class Hours: 54 Lecture**Prerequisite(s): AOJ 001**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: AJ 120***Criminal Law**

AOJ 020 offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The completion of this course offers a foundation upon which upper-division criminal justice course will build. The course will also include some limited discussion of prosecution and defense decision-making, criminal culpability, and defenses to crimes.

AOJ 022 Criminal Evidence**(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: AJ 124***Criminal Evidence**

AOJ 022 examines categories of evidence and legal rules governing its admission and exclusion in the criminal process; explores the origin, development, philosophy, constitutional and procedural basis of evidence, arrest, and search and seizure; and examines judicial decisions and statutory rules of evidence impacting the admissibility of testimony, writings and material objects in a United States court of law.

AOJ 024 Criminal Investigation**(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: AJ 140***Criminal Investigation**

AOJ 024 addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process.

AOJ 029 Criminology**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: SOCI 160***Criminology**

AOJ 029 is an introduction to major types of criminal behavior, characteristics of offenders, factors which contribute to crime and delinquency; the criminal justice process; the function of law enforcement, the courts, probation, parole and institutions; changes in crime control and treatment processes, the role of society. Not open for credit to students who have had a Sociology Crime and Delinquency course or Introduction to Criminology.

AOJ 032 Juvenile Delinquency**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: AJ 220***Juvenile Delinquency**

AOJ 032 is an examination of the origin, development, and organization of the Juvenile Justice System as it evolved in the American Justice System. The course explores the theories that focus on juvenile law, courts and processes, and the constitutional protections extended to juveniles administered in the American Justice System.

AOJ 044 Understanding Gangs**(3)***Class Hours: 54 Lecture**Advisory(s): AOJ 001 or ENG 051A**Transfers to: UC/CSU***Understanding Gangs**

AOJ 044 is an introduction to both street and prison gangs. The course is focused on providing a foundation of knowledge on the origins, history, philosophy, community impact, and current trends in gang culture. The course will explore theories of gang involvement, violence, recruitment, graffiti, attire, and criminal activities; with emphasis placed on the organizational structure within gangs and their racial backgrounds. Students will be exposed to an overview of the California legal codes affecting gang enhancements and the prosecution of gang members. Students will explore gender issues, race and ethnicity, gang victimization, and prevention and intervention programs.

Agriculture (AG)

AG 011 **Agriculture Sales and Commun** **(3)**

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: AG-AB 112

Agriculture Sales and Communication

AG 011 studies the principles and practices of the selling process: selling strategies and approaches, why and how people buy, prospecting, territory management, and customer service. Self- management, communication, and interpersonal skills necessary in developing managerial abilities, leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. Students will gain experience through role-play, formal sales presentations, and job shadowing. The course content is organized to give students an in-depth understanding of the factors and influences that affect the agribusiness industry on a day-to-day basis. Application of these concepts and methods through hands-on projects developing solutions for agriculture business.

AG 014 **Tractor Operations** **(3)**

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

C-ID: AG-MA 108L

Tractor Operations

AG 014 involves design principles, selection, maintenance, adjustment, and safe operation of wheel and track type tractors used in agriculture and in the construction industry.

AG 015X **Occupational Work Experience** **(1 - 8)**

Class Hours: Work Experience

Transfers to: CSU

Occupational Work Experience

Cooperative Work Experience Education (CWEE) develops skills and knowledge by integrating classroom study with planned, supervised work experience. It is based on the principle that well-educated individuals develop most effectively through an educational plan that incorporates work experience. Through these structured experiences, the students enrich their college studies, which enhance their total development. Occupational Work Experience is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes, and career awareness in the field of the student's major. Students may earn up to 8 units per semester for a maximum of 16 total units. Credits are awarded for paid or voluntary work. For every 75 hours of paid work completed within the semester, 1 unit of credit is awarded. For every 60 hours of volunteer work completed within the semester, 1 unit of credit is awarded. Occupational Work Experience credits are counted as electives toward an Associate's Degree at West Hills College Coalinga and are transferable to four year universities (for specific transfer eligibility, please contact a counselor or an advisor).

Agriculture Business (AGBUS)

AGBUS 015 **Computer Application to Agricu** **(3)**

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: AG-AB 108

Computer Application to Agriculture

AG BUS 015 is an introduction to computer use in the workplace with emphasis on precision agriculture situation. Computer applications including word-processing, spreadsheets, databases, and presentation managers will be covered. Also included will be accessing information through the internet and world wide web, telecommunications, and other software appropriate to precision agriculture.

AGBUS 024 Agricultural Accounting**(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: AG-AB 128***Agricultural Accounting**

AGBUS 024 is the study of the principles of agricultural accounting systems and types of records, their use and how to compute and use measures of earnings and cost of production to improve agribusiness efficiency. Farm income tax, Social Security, and employee payroll records also included. Application of these concepts and methods through hands-on projects developing computer-based solutions for agriculture business. This class covers all accounting principles and practices that would generally be used in a farm, ranch, or similar business.

AGBUS 040 Intro Agricultural Economics**(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: AG-AB 124***Introductory Agricultural Economics**

AGBUS 040 is an introductory study of agricultural economics including the place of agriculture and farming in the economic system; basic economic concepts, and problems of agriculture; pricing and marketing problems, factors of production; and state and federal farm programs affecting the farmer's economic position.

Agriculture Engineering Tech (AET)**AET 015 CAD for Agriculture****(2)***Class Hours: 108 Laboratory**Transfers to: UC/CSU***CAD for Agriculture**

AET 015 is an introduction to computer aided drafting for agriculture; including engineering, design and construction. Laboratories will utilize AutoCAD software to complete projects. Topics include: drawing setup, 2-D projections including automatic dimensioning and hatching, isometric construction, drawing layers, library symbols, and use of 3-D drawing software.

AET 021 Ag-Irrigation Management**(3)***Class Hours: 36 Lecture | 54 Laboratory**Transfers to: CSU***Ag-Irrigation Management**

AET 021 is designed to teach the principles of irrigation system management for dealers, regulators and farmers (or those interested in those areas). Topics such as surface irrigation methods (furrow and border strip) and pressurized systems (micro and sprinklers) are covered. Students will learn when and how much to irrigate; includes sections on evapotranspiration and crop coefficients, practical irrigation scheduling techniques, how irrigation efficiency and uniformity influence irrigation scheduling, and salinity effects. This course aligns with the Irrigation Association's Certified Irrigation Specialist Program. (CAIS).

American Sign Language (ASL)

ASL 001 **Intro to Asl: Level 1** **(4)**

Class Hours: 72 Lecture

Transfers to: UC/CSU

Introduction to American Sign Language: Level 1

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 as 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 **Inter American Sign Language:** **(4)**

Class Hours: 72 Lecture

Prerequisite(s): ASL 001

Transfers to: UC/CSU

Intermediate American Sign Language: Level 2

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: 54 Lecture

Transfers to: UC/CSU

C-ID: AG-AS 104

Introduction to Animal Science

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.

Art (ART)

ART 002 **Two-Dimensional Design** **(3)**

Class Hours: 27 Lecture | 81 Laboratory

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: ARTS 100

Two-Dimensional Design

ART 002 is an introduction to the elements and principles of two-dimensional design, which are common to the visual arts. It is a foundation course stressing visual perception and an effective knowledge of the graphic means of expression and communication with reference to art historical and contemporary concepts and applications.

ART 003 Three Dimensional Design Fund**(3)***Class Hours: 27 Lecture | 81 Laboratory**Transfers to: UC/CSU**C-ID: ARTS 101*

Three-Dimensional Design Fundamentals

ART 003 is a course designed to introduce the student to the fundamentals of three-dimensional design, including historical and conceptual applications.

ART 005A Basic Drawing**(3)***Class Hours: 27 Lecture | 81 Laboratory**Advisory(s): ENG 001A (ENGL C1000) or ESL 001**Transfers to: UC/CSU**C-ID: ARTS 110*

Basic Drawing

ART 005A introduces the drawing discipline with an emphasis on perceptually based drawing, observational skills, technical abilities, and creative responses to materials employing a wide range of subject matter and drawing media.

ART 005B Intermediate Drawing**(3)***Class Hours: 27 Lecture | 81 Laboratory**Prerequisite(s): ART 005A**Advisory(s): ENG 001A (ENGL C1000) or ESL 001**Transfers to: UC/CSU**C-ID: ARTS 205*

Intermediate Drawing

ART 005B offers additional lecture and studio time to further explore the drawing principles, build on fundamental drawing skills, techniques, and methodologies, as well as develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches for drawing.

ART 008 Color Theory**(3)***Class Hours: 27 Lecture | 81 Laboratory**Advisory(s): ART 008**Advisory(s): ENG 001A (ENGL C1000) or ESL 001**Transfers to: UC/CSU**C-ID: ARTS 270*

Color Theory

ART 008 is the study of principles, theories, and applications of color as it relates to two-dimensions, with emphasis on both historical and contemporary color systems, as well as the production of projects in applied color utilizing the visual art elements of design.

ART 013A Beginning Ceramics**(3)***Class Hours: 27 Lecture | 81 Laboratory**Advisory(s): ENG 051A**Transfers to: UC/CSU*

Beginning Ceramics

ART 013A is the study of the ceramic discipline with emphasis upon technique and the historical context and its relationship to the ceramic medium of the 21st century.

ART 013B Intermediate Ceramics (3)

Class Hours: 27 Lecture | 81 Laboratory

Prerequisite(s): ART 013A

Transfers to: UC/CSU

Intermediate Ceramics

ART 013B offers additional lecture and studio time to further explore hand building, glazing, and wheel throwing techniques based on historical and contemporary approaches.

ART 013C Advanced Ceramics (3)

Class Hours: 27 Lecture | 81 Laboratory

Prerequisite(s): ART 013B

Transfers to: UC/CSU

Advanced Ceramics

ART 013C will offer further lecture and studio time to explore concepts and theories of ceramics.

ART 015A Beginning Painting (3)

Class Hours: 27 Lecture | 81 Laboratory

Advisory(s): ENG 001A (ENGL C1000) or ESL 001

Advisory(s): ART 005A

Transfers to: UC/CSU

C-ID: ARTS 210

Beginning Painting

ART 015A will offer lecture and studio time to explore the heritage and fundamentals of painting, including materials and techniques, color theory, as well as creative responses to materials and subject matter. An introduction to visual art elements, principles of design, and painting practices will be covered.

ART 015B Intermediate Painting (3)

Class Hours: 27 Lecture | 81 Laboratory

Prerequisite(s): ART 015A

Transfers to: UC/CSU

Intermediate Painting

ART 015B will offer further lectures and studio time to explore the heritage and fundamentals of painting.

ART 015C Advanced Painting (3)

Class Hours: 27 Lecture | 81 Laboratory

Prerequisite(s): ART 015B

Advisory(s): ENG 051A

Transfers to: UC/CSU

Advanced Painting

ART 015C will offer further lecture and studio time to explore concepts and theories of painting.

ART 016A Survey of Western Art (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: ARTH 110

Survey of Western Art: Pre-History to Proto-Renaissance

ART 016A is a survey of the arts and architecture from the beginning of recorded history through the Middle Ages in Western Culture.

ART 016B Survey of Western Art**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000) or ESL 001**Advisory(s): ART 016A**Transfers to: UC/CSU**C-ID: ARTH 120*

Survey of Western Art: Renaissance to The Present

ART 016B is a survey of the Arts from the early Renaissance in Italy through contemporary styles. The course includes a concentrated study of individual artists and their work from various cultural and ethnic backgrounds.

ART 042 Art Appreciation**(3)***Class Hours: 54 Lecture**Advisory(s): ESL 001 or ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: ARTH 100*

Art Appreciation

ART 042 provides a general introduction to art and offers a look at works of art through the study of theory, terminology, themes, design principles, media, and techniques, with an introduction to the visual arts across time and diverse cultures. No art background is necessary.

Athletics (ATHL)

ATHL 002 Fundamentals of Softball**(0.5 - 3)***Class Hours: 175 Laboratory**Prerequisite(s): Medical approval from a licensed physician**Transfers to: UC/CSU*

Fundamentals of Softball

ATHL 002 is designed to provide fundamental instruction for those interested in competing in softball at the community college level.

ATHL 003 Fundamentals of Football**(0.5 - 3)***Class Hours: 175 Laboratory**Prerequisite(s): Medical approval from a licensed physician**Transfers to: UC/CSU*

Fundamentals of Football

ATHL 003 is designed to provide instruction and practice in the fundamentals of football including throwing, catching, running, blocking, and the interpretation of rules of football.

ATHL 004 Fund of Men's Basketball**(0.5 - 3)***Class Hours: 175 Laboratory**Prerequisite(s): Medical approval from a licensed physician**Transfers to: UC/CSU*

Fundamentals of Men's Basketball

ATHL 004 is designed to provide instruction and practice in the fundamentals of basketball including shooting, rebounding, passing, ball-handling, defensive footwork and technique, and knowledge and interpretation of rules.

ATHL 006 Fundamentals of Baseball (0.5 - 3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Fundamentals of Baseball

ATHL 006 is designed to provide instruction and practice in the fundamentals of baseball including hitting, pitching, fielding, base running skills, defensive skills, and knowledge and interpretation of rules.

ATHL 007 Fundamentals of Volleyball (2)

Class Hours: 117 Laboratory

P/NP

Advisory(s): Students shall complete a thorough pre-participation examination prior to any practices or intercollegiate competitions.

Transfers to: UC/CSU

Fundamentals of Volleyball

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

ATHL 016 Fundamentals of Men's Rodeo (0.5 - 3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Fundamentals of Men's Rodeo

ATHL 016 will focus on the fundamental, theory, and practice of intercollegiate men's rodeo events; bareback riding, saddle bronc riding, bull riding, tie down roping, steer wrestling, team roping emphasizing the physiology and physical foundations, history of the sport, scoring, rule interpretation, and judging. The course will also provide the student the opportunity to study, learn, and practice the skills and techniques necessary to participate in intercollegiate men's rodeo events. Enrollment limited to those qualified to compete in intercollegiate rodeo.

ATHL 017 Fundamentals of Women's Rodeo (0.5 - 3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Fundamentals of Women's Rodeo

ATHL 017 will focus on the fundamental, theory, and practice of intercollegiate woman's rodeo events; barrel racing, goat tying, break away roping, team roping emphasizing the physiological fundamentals, history of the sport, scoring, rule interpretation, and judging. The course will also provide the student the opportunity to study, learn, and practice the skills and techniques necessary to participate in intercollegiate women's rodeo events. Enrollment limited to those qualified to compete in intercollegiate rodeo.

ATHL 022 Intercollegiate Softball (3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Softball

ATHL 022 is designed to provide an introduction to competition in softball at the community college level.

ATHL 023 Intercollegiate Football (3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Football

ATHL 023 provides the opportunity for students to further their football skills and utilize them in competitive sport, competing with other colleges.

ATHL 024 Intercollegiate Men's Basketball (3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Men's Basketball

ATHL 024 is designed to provide competition in basketball at the community college level. Intercollegiate basketball will emphasize and develop individual and team skills through the use of intermediate and advanced techniques and knowledge.

ATHL 026 Intercollegiate Baseball (3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Baseball

ATHL 026 provides competition in baseball at the community college level. Intercollegiate baseball will emphasize and develop individual and team skills through the use of intermediate and advanced techniques and knowledge.

ATHL 027 Intercollegiate Women's Volley (3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed Medical Doctor only.

Transfers to: UC/CSU

Intercollegiate Women's Volleyball

ATHL 027 is designed to provide competition in volleyball at the community college level. Intercollegiate volleyball will develop intermediate and advanced techniques and knowledge with an emphasis on the individual as well as team skills involved in the game.

ATHL 036 Intercollegiate Men's Rodeo (1.5)

Class Hours: 87.5 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Men's Rodeo

ATHL 036 is designed to provide instruction for those interested in further developing their proficiency in men's intercollegiate rodeo events. Methods in competitive performance, individual and team strategy, in a National Intercollegiate Rodeo Association (NIRA) sanctioned competition event. Enrollment limited to those qualified to compete in intercollegiate rodeo.

ATHL 037 Intercollegiate Women's Rodeo (1.5)

Class Hours: 87.5 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Women's Rodeo

ATHL 037 is designed to provide instruction for those interested in further developing their proficiency in women's intercollegiate rodeo events. Methods in competitive performance, individual and team strategy, in a National Intercollegiate Rodeo Association (NIRA) sanctioned competition event. Enrollment limited to those qualified to compete in intercollegiate rodeo.

ATHL 038 Intercollegiate Cross-Country (3)

Class Hours: 175 Laboratory

Transfers to: UC/CSU

Intercollegiate Cross-Country

ATHL 038 provides competition in cross-country at the community college level. Intercollegiate cross-country will provide general and specific long distance running principles, conditioning methods, and race tactics involved in competitive long distance running.

Biology (BIO)

BIO 001A Cell and Molecular Biology (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): CHEM 001A

Prerequisite(s): MATH 063 or MATH 064

Transfers to: UC/CSU

C-ID: BIOL 190/135S

Cell and Molecular Biology

BIO 001A cover principles and applications of prokaryotic and eukaryotic cell structure and function, biological molecules, homeostasis, cell reproduction and its controls, molecular genetics, classical/Mendelian genetics, cell metabolism including photosynthesis and respiration, and cellular communication. The philosophy of science, methods of scientific inquiry and experimental design are foundational to the course.

BIO 001B Organismal Biology (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): MATH 063 or MATH 064

Advisory(s): BIO 001A and ENG 051A

Transfers to: UC/CSU

C-ID: BIOL 140/135S

Organismal Biology

BIO 001B is intended for biology majors. It is a survey of the basic biology and diversity of unicellular and multicellular organisms. It emphasized general biological principles, classification, structure, function and evolutionary adaptations of organisms (including plants, fungi, animals, and unicellular organisms) to their environments.

BIO 010 Fundamentals of Biology (3)

Class Hours: 36 Lecture | 54 Laboratory

Advisory(s): ENG 051A

Transfers to: UC/CSU

Fundamentals of Biology

BIO 010 is recommended for the non-science major. The primary objective of this course is to teach basic biological concepts as they relate to cells and organisms. Consideration will be given to the cellular and chemical basis of life, genetics, evolution, and ecology.

BIO 015 Biology for Education**(3)***Class Hours: 36 Lecture | 54 Laboratory**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU*

Biology for Education

BIO 015 is required for Liberal Studies students seeking a Multiple Subject Teaching Credential and transferring to the California State University system. The primary objective of this course is to teach biological concepts as they relate to the cell and the organism as a whole. Consideration will be given to the cellular and chemical basis of life, genetics, evolution, and ecology.

BIO 032 Human Anatomy**(4)***Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(s): ENG 051A**Prerequisite(s): Math 063 or Math 064**Advisory(s): BIO 010 and HS 005**Transfers to: UC/CSU**C-ID: BIOL 110B*

Human Anatomy

BIO 032 examines the structural organization of the human body: gross and microscopic structure of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems, from cellular to organ system levels of organization. This course is primarily intended for nursing, allied health, kinesiology, and health-related majors.

BIO 035 Human Physiology**(4)***Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(s): ENG 051A**Prerequisite(s): MATH 063 or MATH 064**Advisory(s): BIO 010 and CHEM 002A**Transfers to: UC/CSU**C-ID: BIOL 120B*

Human Physiology

BIO 035 examines the physiological principles, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organism level: integumentary system, bone, skeletal, smooth and cardiac muscles, nervous system, sensory organs, cardiovascular system, lymphatic and immune systems, respiratory system, urinary system, digestive system, endocrine system, and reproductive system. This course is primarily intended for Nursing, Allied Health, Kinesiology, and other health related majors.

BIO 038 Microbiology**(4)***Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(s): CHEM 002A or CHEM 001A**Advisory(s): ENG 001A (ENGL C1000) and BIO 010**Transfers to: UC/CSU*

Microbiology

BIO 038 is a consideration of the morphology, anatomy, physiology, and taxonomy of microorganisms with an emphasis on the methods of isolation, identification, and the diseases microorganisms cause.

Business (BUS)

BUS 001A **Beg Principles of Accounting** (4)

Class Hours: 72 Lecture

Advisory(s): ENG 051A, and Math 061

Transfers to: UC/CSU

C-ID: ACCT 110

Beginning Principles of Accounting

BUS 001A is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. The course includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics.

BUS 001B **Elementary Principles of Acct.** (4)

Class Hours: 72 Lecture

Prerequisite(s): BUS 001A

Transfers to: UC/CSU

C-ID: ACCT 120

Elementary Principles of Accounting

BUS 001B is the study of how managers use accounting information in decision-making, planning, directing operations, and controlling. The course focuses on cost terms and concepts, cost behavior, cost control, profit planning, and performance analysis in manufacturing and service environments.

BUS 002 **Introductory Keyboarding** (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

P/NP

Introductory Keyboarding

BUS 002 is an introductory keyboarding course emphasizes operating alphabetic, numeric, and symbol keys by touch. It includes computer-key-boarding techniques, speed-and-accuracy development, and essential computer-keyboarding information. BUS 002 is a prerequisite to BUS 003.

BUS 003 **Intermediate Keyboarding** (3)

Class Hours: 36 Lecture | 54 Laboratory

Prerequisite(s): BUS 002

Transfers to: CSU

P/NP

Intermediate Keyboarding

BUS 003 provides basic formatting and skill development for employment or personal use. The course builds upon skills learned in BUS 002 and develops additional computer keyboarding skills in the creation of word processing documents. Formatting applications include: business correspondence, reports, and tables. Basic document formatting, grammar, spelling, punctuation, and proofreading are reinforced throughout. Students will use basic features of an office-level word processing program.

BUS 013A **Word for Windows I** (1.5)

Class Hours: 27 Lecture

Transfers to: CSU

C-ID: BSOT 111X

Word for Windows I

BUS 013A provides learners with a basic level of understanding of word processing with Microsoft Word including basic document creation, formatting, and editing using Microsoft Word. Learners create, edit, and format business letters, multiple-page reports, newsletters, and cover letters. This course begins preparation for the Microsoft Office Specialist certification exam for Word.

BUS 013B Word for Windows II**(1.5)***Class Hours: 27 Lecture**Advisory(s): BUS 013A**Transfers to: CSU**C-ID: BSOT 121X***Word for Windows II**

BUS 013B provides learners with an intermediate level of understanding of word processing with Microsoft Word, including complex document creation, mail merge, columns, formatting, plus integration with other applications, and collaborating on documents using Microsoft Word. Themes, templates, and styles are also covered. This course continues the preparation for the Microsoft Office Specialist Exam for Microsoft Word.

BUS 013C Word for Windows III**(1)***Class Hours: 18 Lecture**Prerequisite(s): BUS 013B**Transfers to: CSU**C-ID: BSOT 131X***Word for Windows III**

BUS 013C provides learners with an advanced level of understanding of word processing with Microsoft Word, including the creation of templates, macros, advanced table formatting, and use of long documents and subdocuments. Customizing and automating work and online forms are also covered. This course completes preparation for the Microsoft Office Specialist exam for Word.

BUS 015X Occupational Work Experience**(1 - 8)***Class Hours: Work Experience**Transfers to: CSU***Occupational Work Experience**

Cooperative Work Experience Education (CWEE) develops skills and knowledge by integrating classroom study with planned, supervised work experience. It is based on the principle that well-educated individuals develop most effectively through an educational plan that incorporates work experience. Through these structured experiences, the students enrich their college studies, which enhance their total development. Occupational Work Experience is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes, and career awareness in the field of the student's major. Students may earn up to 8 units per semester for a maximum of 16 total units. Credits are awarded for paid or voluntary work. For every 75 hours of paid work completed within the semester, 1 unit of credit is awarded. For every 60 hours of volunteer work completed within the semester, 1 unit of credit is awarded. Occupational Work Experience credits are counted as electives toward an Associate's Degree at West Hills College Coalinga and are transferable to four year universities (for specific transfer eligibility, please contact a counselor or an advisor).

BUS 018 Business Law**(4)***Class Hours: 72 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: BUS 125***Business Law**

BUS 018 introduces fundamental legal principles pertaining to business transactions and the legal process. Course topics include sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes.

BUS 020 Introduction to Business (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: BUS 110***Introduction to Business**

BUS 020 is a survey of business that provides a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy and practices within the U.S. and a global society. The course demonstrates how these influences impact the primary areas of business including: organizational structure and design; leadership, human resource management, organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, financial practices; the stock and securities market; and therefore affect a business' ability to achieve its organizational goals.

BUS 024 Business Mathematics (3)*Class Hours: 54 Lecture**Transfers to: CSU**C-ID: BSOT 115X***Business Mathematics**

BUS 024 introduces practical mathematical applications for business information students. Topics include, solving business problems using an electronic calculator, banking, payroll, invoicing, markups/markdowns, inventory valuation, interest, present and future value, credit cards, student loans, types of insurance, installment buying, and mortgages.

BUS 028 Business Communication (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Business Communication**

BUS 028 applies the principles of ethical and effective communication to the creation of letters, memos, emails, and written and oral reports for a variety of business situations. The course emphasizes planning, organizing, composing, and revising business documents using word processing software for written documents and presentation-graphics software to create and deliver professional-level oral reports.

BUS 031A MS PowerPoint I (1)*Class Hours: 18 Lecture**Transfers to: CSU***MS PowerPoint I**

BUS 031A provides experience planning, editing, viewing, and printing PowerPoint presentations. Included is the opportunity to add and modify both text and graphics; insert and modify information graphics and multimedia; apply, modify, and create master pages; and to apply, modify, and create templates. Integration with their Microsoft programs is included. This course is designed for all individuals including professionals acquiring or updating basic skills in creating and editing professional presentations.

BUS 031B MS PowerPoint II (1)*Class Hours: 18 Lecture**Prerequisite(s): BUS 031A**Transfers to: CSU***MS PowerPoint II**

BUS 031B features PowerPoint as a tool for designing, producing and controlling visual elements to build and deliver effective presentations. Creating templates, publishing, customizing, and protecting presentations as well as inserting audio, video, and animations and integrating with other programs is included. This course focuses on the design and effective delivery methods which are explored through project presentations.

BUS 032 Small Business Management**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Small Business Management**

BUS 032 is designed to explore the elements involved in successfully operating a small business. The course is geared toward the prospective as well as current small business owner. Instructional topics include the selection, establishment, and operation of a small business. Emphasis will be placed on the unique nature of small business management including human resource management, marketing, and legal issues.

BUS 035 Human Resources Management**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Human Resources Management**

BUS 035 is designed to explore the various aspects of human resources management including the implementation of a successful HRM program. The course is approached from the manager's point of view and focuses on several human resources responsibilities including selection, evaluation, motivation, training, and compensation. The course also examines the legal environment surrounding managing personnel.

BUS 055 Bookkeeping**(3)***Class Hours: 54 Lecture***Bookkeeping**

BUS 055 is an introductory course designed to present the basic knowledge of the theory and practice of bookkeeping for students who are interested in continuing their study to higher levels of accounting, and for those who desire an understanding of ordinary bookkeeping procedures in business offices.

BUS 067 Filing and Records Management**(2)***Class Hours: 18 Lecture | 54 Laboratory***Filing and Records Management**

BUS 067 is designed to provide instruction and practice in traditional records and information management as well as electronic or automated records management systems. Alphabetic, geographic, subject, and numerical filing systems are covered along with the materials, supplies, and related equipment used in management of information in the modern business environment.

BUS 074 Computerized Accounting**(3)***Class Hours: 36 Lecture | 54 Laboratory**Prerequisite(s): BUS 001A or BUS 055**P/NP***Computerized Accounting**

BUS 074 is designed to teach both the accounting and non-accounting students how to use QuickBooks Pro. QuickBooks Pro is one of the most popular computerized accounting software packages used by small and medium sized businesses. This course is an introduction to how QuickBooks Pro can be utilized for the following: maintain a general ledger; track vendors, customers, and inventory activities; process payroll; record assets, expenses, and liabilities; manage budgets; and, create reports.

Chemistry (CHEM)

CHEM 001A General Chemistry I (5)

Class Hours: 54 Lecture | 108 Laboratory

Prerequisite(s): MATH 063 or MATH 064

Transfers to: UC/CSU

C-ID: CHEM 110

General Chemistry I

CHEM 001A is the first semester of a one-year course in chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine), mathematics, and engineering.

CHEM 001B General Chemistry II (5)

Class Hours: 54 Lecture | 108 Laboratory

Prerequisite(s): CHEM 001A

Transfers to: UC/CSU

C-ID: CHEM 120S

General Chemistry II

CHEM 001B is a continuation of the study of the principles of chemistry with an emphasis on chemical thermodynamics (H, S, G), kinetics and mechanisms, equilibrium, electrochemistry, spectroscopy, nuclear chemistry, introductory organic and biochemical systems, and selected elemental chemistries of metals, non-metals, and metalloids. The laboratory includes lecture-matched qualitative and instrumental evaluation of selected species and parameters as well as microprocessor and computerized data gathering, processing and reduction, and computer simulations. Appropriate training in chemical safety is provided. The Chemistry 001A-001B sequence is required of all students majoring in chemistry, chemical engineering, engineering sciences, biology, microbiology, and all applied sciences (medicine, pharmacy, veterinary science, nursing, home economics, etc.).

CHEM 002A Introductory Chemistry (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): MATH 063 or MATH 064

Transfers to: UC/CSU

C-ID: CHEM 101

Introductory Chemistry

CHEM 002A is a study of the applied principles of chemistry for the allied science and non-science majors. Included are scientific methodology, composition of matter, physical and chemical changes, bonding, nomenclature, chemical periodicity and reactivity, stoichiometry, states of matter, atomic and molecular modeling, chemical energetics, properties and models of solids, liquids, gases, aqueous solution and Redox reactions, pH, reactions of elements/acids/bases/salts, and a brief introduction to organic chemistry. Appropriate training in chemical safety is provided. The CHEM 002A/002B sequence is a state university curriculum requirement for students planning to transfer to majors in agriculture, nursing, home economics, industrial technology, industrial arts, and other applied sciences.

CHEM 002B Intro to Organic Chem & Biochem (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): CHEM 002A

Transfers to: UC/CSU

C-ID: CHEM 102

Introduction to Organic Chemistry and Biochemistry

CHEM 002B is an introduction or a survey to the basic concepts of organic and biochemistry for nursing majors and other allied health fields. Topics include structure and behavior of organic and biological compounds, metabolism, and regulation as they apply to living systems. The laboratory component will support the course topics including both qualitative and quantitative experiments, and analysis of data.

CHEM 012A Organic Chem for Sci Majors I**(3)***Class Hours: 54 Lecture**Prerequisite(s): CHEM 001A**Advisory(s): CHEM 001B**Co-Requisite(s): CHEM 012AL**Transfers to: UC/CSU**C-ID: CHEM 150/160 S*

Organic Chemistry for Science Majors I

CHEM 012A is the first course in a two course sequence in organic chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, and pre-medicine). A study of all aspects of fundamental organic chemistry including nomenclature, chemical and physical properties, reactions and syntheses of the major classes of organic compounds will be cover by the two-course sequence. The course sequence includes advance topics of organic chemistry such as theoretical aspects, reaction mechanisms, multistep syntheses, and the chemistry of polycyclic and heterocyclic compounds. This course is more extensive an intensive than CHEM 002B and includes a greater emphasis on reaction mechanisms and multistep syntheses.

CHEM 012AL Organic Chemistry Lab for Scie**(2)***Class Hours: 18 Lecture | 72 Laboratory**Prerequisite(s): CHEM 001A , CHEM 001B**Corequisite(s): CHEM 012A**Transfers to: UC/CSU**C-ID: CHEM 150/160 S*

Organic Chemistry Lab for Science Majors I

CHEM 012AL is the first laboratory course of a one-year lab course sequence in organic chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, and pre-medicine). A study of all aspects of fundamental organic chemistry including nomenclature, chemical and physical properties, reactions and syntheses of the major classes of organic compounds will be cover by the two-course sequence. The course sequence includes advance topics of organic chemistry such as theoretical aspects, reaction mechanisms, multistep syntheses, and the chemistry of polycyclic and heterocyclic compounds. This course is more extensive and intensive than CHEM 002B and includes a greater emphasis on reaction mechanisms and multistep syntheses.

CHEM 012B Organic Chemistry for Science**(3)***Class Hours: 54 Lecture**Prerequisite(s): CHEM 001A and CHEM 012A**Advisory(s): CHEM 001B**Transfers to: UC/CSU**C-ID: CHEM 160 S*

Organic Chemistry for Science Majors II

CHEM 012B is the second semester of a one-year course in organic chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, and pre-medicine). A study of all aspects of fundamental organic chemistry, including nomenclature, chemical and physical properties, reactions and syntheses of the major classes of organic compounds. The study includes theoretical aspects, reaction mechanisms, multistep syntheses, and the chemistry of polycyclic and heterocyclic compounds. This course is more extensive and intensive than CHEM 002B and includes a greater emphasis on reaction mechanisms and multistep syntheses.(is just the lecture only course. The lab component is CHEM 012BL.)

CHEM 012BL Organic Chemistry Lab for Scie (2)

Class Hours: 18 Lecture | 72 Laboratory

Prerequisite(s): CHEM 012A and CHEM 012AL

Corequisite(s): CHEM 012B

Transfers to: UC/CSU

C-ID: CHEM 160 S

Organic Chemistry Lab for Science Majors II

CHEM 012BL is the second semester of a one-year lab course in organic chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, and pre-medicine). A study of all aspects of fundamental organic chemistry including nomenclature, chemical and physical properties, reactions and syntheses of the major classes of organic compounds will be covered by the two-course sequence. The course sequence includes advanced topics of organic chemistry such as theoretical aspects, reaction mechanisms, multistep syntheses, and the chemistry of polycyclic and heterocyclic compounds. This course is more extensive and intensive than CHEM 002B and includes a greater emphasis on reaction mechanisms and multistep syntheses.

Child Development (CD)

CD 002 Teaching in a Diverse Society (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: ECE 230

Teaching in a Diverse Society

CD 002 will explore the development of social identities in diverse societies including the theoretical and the practical implications. Various classroom strategies will be presented emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. The course includes discussions and self-examination related to social identity, stereotypes and bias, social and educational access, media, and schooling.

CD 003 Observation and Assessment (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

C-ID: ECE 200

Observation and Assessment

CD 003 provides experiences using observation and assessment strategies to document children's growth and development. Various scientific techniques will be introduced and utilized to benefit the child, the environmental situations, family and teacher interaction, and/or successful referrals to other professionals focusing on children.

CD 004 Parenting (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

Parenting

CD 004 offers parents and teachers information for understanding parent-child relationships. Students will explore the use of positive parenting skills, assess socially acceptable family values, and learn about child development and how it plays a direct part in parenting the child.

CD 005 Child Development**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: CDEV 100***Child Development**

CD 005 is the study of the typical and atypical growth and development of the child from conception through adolescence, with a concentration on the first six years of life. Issues concerning the physical, cognitive, emotional, and social development of the child will be studied from relevant theoretical positions and investigative research methodologies. There will be an emphasis on interactions between maturational processes and environmental factors. Students will be involved in observing, interviewing, evaluating, and applying relevant developmental evaluations.

CD 006 Child and Adolescent Developme**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU***Child and Adolescent Development**

CD 006 is the study of typical and atypical growth and development of the adolescence, with a concentration on the adolescent ages 11 through 18 years. Issues concerning the physical, cognitive, emotional, and social development of the adolescent will be studied from relevant theoretical positions and investigative research methodologies. There will be an emphasis on interactions between maturational processes and environmental factors. Students will observe, interview, evaluate, and apply relevant developmental evaluations.

CD 010 Child, Family and Society**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: CDEV 110***Child, Family and Society**

CD 010 is an examination of the developing child in a societal context focusing on the interrelationship of family, school and community, along with emphasis on historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. Students are required to accomplish 12 hours of volunteer service in their community.

CD 012A Principles & Practices of ECE**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A,**Transfers to: CSU**C-ID: ECE 120***Principles & Practices of Early Childhood Education**

CD 012A includes an examination of theoretical principles of developmental practices as applied to programs, environments, teacher relationships, constructive adult-child interactions, curriculum planning, and teaching strategies supporting the physical, emotional, social, and cognitive development of young children. Included in this course is information on the early history of early childhood programs, professional practices promoting advocacy, ethics and professional identity.

CD 012B Principles & Practices of ECE (3)*Class Hours: 18 Lecture | 108 Laboratory**Prerequisite(s): CD-005, CD-010, CD-012A, and CD-016**Transfers to: CSU**C-ID: ECE 210*

Principles and Practices of Early Childhood Education Field Work

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.

CD 014A Adm. & Superv. of Child. Prgrm (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU*

Administration and Supervision of Children's Programs

CD 014A is designed for students that have a foundation in child development and the desire to be involved in the administration of children's programs as a director and/or supervisor. The course will focus on state regulations governing child development programs and its application to children's programs. Information pertaining to staffing, educational philosophies, program planning, health, safety and nutrition issues, child abuse reporting, budget development, and successful business practices will be addressed.

CD 014B Adm. & Superv. of Child. Prgrm (3)*Class Hours: 36 Lecture | 54 Laboratory**Advisory(s): ENG 051A**Transfers to: CSU*

Administration and Supervision of Children's Programs Fieldwork

CD 014B is a course designed for students that have a firm foundation in child development and have an interest in becoming an administrator of a children's program. This course offers the student an opportunity to design and demonstrate their writing and computer abilities as reflected in assigned projects such as personal portfolios, newsletters, parent education presentations, staff in-services, school policy development, and other related assignments. In addition, this course involves the application of administrative knowledge as discussed in Child Development 014A. Students will be given the opportunity to gain administrative experiences in an appropriate community-based children's program.

CD 015 Lit. & Lang Arts for Yng Child (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU*

Literature and Language Arts for Young Children

CD 015 is the study of age-appropriate literature for young children with an emphasis placed on the selection, evaluation and practice of the literature discussed. Students will be introduced to information on emerging literacy and language development. Appropriate language art skills for young children are included, as well as multicultural and gender identity information as it pertains to children's literature.

CD 015X Occupational Work Experience**(1 - 8)***Class Hours: Work Experience**Transfers to: CSU***Occupational Work Experience**

Cooperative Work Experience Education (CWEE) develops skills and knowledge by integrating classroom study with planned, supervised work experience. It is based on the principle that well-educated individuals develop most effectively through an educational plan that incorporates work experience. Through these structured experiences, the students enrich their college studies, which enhance their total development. Occupational Work Experience is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes, and career awareness in the field of the student's major. Students may earn up to 8 units per semester for a maximum of 16 total units. Credits are awarded for paid or voluntary work. For every 75 hours of paid work completed within the semester, 1 unit of credit is awarded. For every 60 hours of volunteer work completed within the semester, 1 unit of credit is awarded. Occupational Work Experience credits are counted as electives toward an Associate's Degree at West Hills College Coalinga and are transferable to four year universities (for specific transfer eligibility, please contact a counselor or an advisor).

CD 016 Introduction to Curriculum**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU**C-ID: ECE 130***Introduction to Curriculum**

CD 016 presents an overview of knowledge and skills related to providing developmentally appropriate curriculum and environments for young children under the age of six. Content of course will emphasize information on the role of play and its importance in the learning process of young children and other content areas, including but not limited to, language and literacy, social and emotional learning, sensory learning, the performing arts, math and science. Students will use their observational and assessment skills to evaluate the outcomes of curriculum planning.

CD 017A Sex Ed for Teach & Parents of**(1)***Class Hours: 18 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Sex Education for Parents and Teachers**

CD 017A is designed for teachers and parents of children. This course provides basic sex education, which includes the stages of sexual development from prenatal development through adolescence, useful communication skills for adults when talking to children about sexual development and relationships, and the influences of media upon children as it pertains to sexuality.

CD 017B Child Abuse Recogn & Prevent.**(1)***Class Hours: 18 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Child Abuse Recognition and Prevention**

CD 017B provides information concerning child abuse recognition and prevention. The types of abuse and the psychological impact of abuse on young children are presented. Mandated reporting for educators and the California Penal Code, as it pertains to child abuse, are addressed.

CD 017C Single Parenting (1)*Class Hours: 18 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Single Parenting**

CD 017C is designed for single parents and for teachers working with single parents. Information in this course will include the effects of divorce on children, child custody issues, and the family dynamics of the single-parent family.

CD 018 Health, Safety and Nutrition (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU**C-ID: ECE 220***Health, Safety and Nutrition**

CD 018 provides basic information on the laws, regulations, standards, policies, and procedures and early childhood curriculum related to child health, safety, and nutrition. The key components that ensure physical health, mental health, and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Emphasis will be on integrating the concepts into everyday planning and program development for all children.

CD 021 Infant & Toddler Caregiving (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Infant and Toddler Caregiving**

CD 021 is an overview of infant and toddler development, including physical growth, motor skills, perception, cognition, social skills, and personality. Applied developmental knowledge will be directed to the study of appropriate equipment, curriculum content, and health, safety, and nutritional issues. Quality infant and toddler environments will be addressed.

CD 022 Superv. Adults Work in Child P (2)*Class Hours: 36 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Supervising Adults Working in Children's Programs**

CD 022 provides information about the issues and methods of working with staff, adult volunteers, parents and other adults working in publicly funded, non-profit and private children's programs. This course is required by the State of California Commission for Teacher Preparation and Licensing of all master teachers, site supervisors, and program directors that are employed in publicly funded children's programs.

CD 023 Domestic Violence Recog. & Pre (1)*Class Hours: 18 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Domestic Violence Recognition and Prevention**

CD 023 addresses the recognition of domestic violence in families, its effects upon victims and children, and how knowledge of the subject matter provides a prevention platform.

CD 024 School-Age Development**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU***School-Age Development**

CD 024 is the study of the growth and development of the school-age child, with a concentration on the years between six through adolescence. Issues concerning the physical, cognitive, emotional, and social development of the school-age child will be studied from relevant theoretical positions.

CD 025 School-Age Curriculum**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***School-Age Curriculum**

CD 025 provides basic information pertaining to school-age curriculum. Emphasis is on understanding and planning curriculum for the school-age child that includes assessing, implementing and evaluating programs. Other topics discussed include scheduling, policies, indoor/outdoor environments, special needs, and cultural issues.

CD 026A Found of School-Age Child Care**(1)***Class Hours: 18 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Foundation of School-Age Child Care**

CD 026A provides basic information pertaining to the foundations of a school-age child program. Emphasis is on the growing field of school-age care, characteristics, and traits of school-age children, developing and implementing program rules, planning program activities, and handling conflicts among school-age children.

CD 026B Quality School-Age Care**(1)***Class Hours: 18 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***Quality School-Age Care**

CD 026B provides basic information pertaining to school-age program standards and quality care. Emphasis is on understanding quality school-age care by evaluating human relationships, indoor and outdoor environments, daily activities, safety and health issues, and administration.

CD 026C School-Age Sports and Act.**(1)***Class Hours: 18 Lecture**Advisory(s): ENG 051A**Transfers to: CSU***School-Age Sports and Activities**

CD 026C is the study of school-age sports and activities and how they relate to the growth of school-age children. The student will receive basic information on planning and implementing active and quiet times, art and crafts, puppets, music and movement, construction and carpentry, nutrition and cooking, activities with water, and gardening.

Communication (COM)

COM 002 Oral Interpretation of Literature (3)

Class Hours: 54 Lecture

Prerequisite(s): COM 001 (COMM C1000)

Transfers to: UC/CSU

C-ID: COMM 170

Oral Interpretation of Literature

COM 002 provides an introduction to performance studies and an analysis, appreciation, and application of theories of interpretive performances of various forms of literature including poetry, prose, and drama plays, scripts and screenplays.

COM 003 Argumentation and Debate (3)

Class Hours: 54 Lecture

Prerequisite(s): COM 001 (Comm C1000)

Transfers to: UC/CSU

C-ID: COMM 120

Argumentation and Debate

COM 003 provides instruction in methods of critical inquiry and advocacy. The course focuses on identifying fallacies in reasoning and language, testing evidence and evidence sources, advancing a reasoned position, and defending and refuting arguments. The course also covers the analysis, presentation, and evaluation of oral and written arguments.

COM 004 Small Group Dynamics & Presentation (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A (ENGL C1000)

Transfers to: UC/CSU

C-ID: COMM 140

Small Group Dynamics and Presentation

COM 004 provides instruction in the dynamics of small-group communication. Students will explore their own communication skills and weaknesses through the application of critical thinking and analysis. Students will learn a variety of problem-solving and leadership techniques, including how to conduct meetings and discussions, as well as how to effectively and persuasively present information within small groups and as a small group to a larger audience, utilizing both traditional and internet research methods together to analyze information.

COM 005 Interpersonal Communication (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A (ENGL C1000)

Transfers to: UC/CSU

C-ID: COMM 130

Interpersonal Communication

COM 005 covers the principles of verbal and nonverbal transactions that occur in relationships. The course covers the study of theory and research findings and their application to communication in interpersonal relationships in personal and professional contexts. It includes studying and applying various interpersonal communication skills to build healthier relationships, such as active listening, conflict management strategies, and identity construction within social and cultural contexts. Students will engage in interpersonal exercises to use communication skills such as listening, paraphrasing, describing feelings, decision-making.

COM 006 Intercultural Communication**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: COMM 150***Intercultural Communication**

COM 006 is an introduction to intercultural communication in domestic and/or global contexts. The course examines the influence of cultures, languages, and social patterns on the ways members of groups relate among themselves and with members of different ethnic and cultural groups. Theory and knowledge of effective communication within and between cultures is covered. Students will draw comparisons between the communication modes and dynamics among people in diverse groups within the larger context of American culture.

Communication (COMM)**COMM C1000 Introduction to Public Speaking****(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: COMM 110***Introduction to Public Speaking**

In this course, students learn and apply foundational rhetorical theories and techniques of public speaking in a multicultural democratic society. Students discover, develop, and critically analyze ideas in public discourse through research, reasoning, organization, composition, delivery to a live audience, and evaluation of various types of speeches, including informative and persuasive speeches.

Computer Information Systems (CIS)**CIS 002 Internet Programming HTML/CSS****(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU***Internet Programming HTML/CSS**

CIS 002 is an intensive nine week course that helps students develop the skills needed to create and maintain well-organized and well-formed Web pages and sites. Students will learn the history, power and limitations of basic Web page development through the Web's foundation languages, Hypertext Mark-up Language (HTML) and Cascading Style Sheets (CSS) as specified by the official Web standards body. Students learn to build solid Web pages at a RAW level through a series of hands-on exercises. The course is targeted toward Web designers, developers and publications specialists. This course serves as a tutorial for students who have not coded Web pages before and a review for students who have some HTML/CSS coding knowledge and want to build on that knowledge. Upon successful completion of this course, students will have clear understanding and knowledge of Web-standards foundations for coding pages today and into the future.

CIS 002D Intro to Prog. Concepts & Meth**(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU***Introduction to Programming Concepts and Methodologies - Java**

CIS 002D Introduction to Programming Concepts and Methodologies - JAVA is a nine-week introduction to the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem solving, programming logic, and fundamental design techniques for event-driven programs. CIS 002D introduces students to the Java programming language. Good programming practices will be emphasized, including structures and object-oriented techniques.

CIS 007 Computer Concepts**(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: BUS140/ITIS120***Computer Concepts**

CIS 007 explores information systems and their impact on business. The course delves into topics such as information systems, database management systems, networking, e-commerce, ethics, and security, as well as computer systems hardware and software components. Through engaging hands-on projects, students will apply these concepts and methods to develop computer-based solutions for real-world business challenges.

CIS 008 Microcomputer Operating Enviro**(1)***Class Hours: 9 Lecture | 27 Laboratory**P/NP**Transfers to: CSU***Microcomputer Operating Environment**

CIS 008 offers a supportive introduction to the Windows operating system, guiding you through its interface, essential programs, and customization options. Whether you're new to computers or looking to brush up on the basics, this course is designed to meet you where you are. Through hands-on activities, you'll gain the skills to navigate the Windows interface with ease, use common programs, manage files and folders on your computer and external drives, personalize your desktop for a comfortable work environment, create shortcuts for quick access to your favorite programs, and adjust visual and auditory settings for your preferences. This course welcomes students of all backgrounds and experience levels. We'll provide a patient and inclusive learning environment where you can ask questions and develop your competence at your own pace.

CIS 015X Occupational Work Experience**(1 - 8)***Class Hours: Work Experience**Transfers to: CSU***Occupational Work Experience**

Cooperative Work Experience Education (CWEE) develops skills and knowledge by integrating classroom study with planned, supervised work experience. It is based on the principle that well-educated individuals develop most effectively through an educational plan that incorporates work experience. Through these structured experiences, the students enrich their college studies, which enhance their total development. Occupational Work Experience is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes, and career awareness in the field of the student's major. Students may earn up to 8 units per semester for a maximum of 16 total units. Credits are awarded for paid or voluntary work. For every 75 hours of paid work completed within the semester, 1 unit of credit is awarded. For every 60 hours of volunteer work completed within the semester, 1 unit of credit is awarded. Occupational Work Experience credits are counted as electives toward an Associate's Degree at West Hills College Coalinga and are transferable to four year universities (for specific transfer eligibility, please contact a counselor or an advisor).

CIS 019B Database Creation & Management**(3)***Class Hours: 36 Lecture | 54 Laboratory**P/NP**Transfers to: CSU***Database Creation & Management**

CIS 019B allows you to embark on an exploration of microcomputer databases. Whether you are new to computers or looking to brush up, this course will invite you to engage with the dynamic world of databases. Join us on a learning journey where you'll discover the art of crafting databases, generating insightful reports, and gaining mastery in updating, editing, and structuring forms within the database program.

CIS 020 Digital Image Prod-Photoshop**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: UC/CSU*

Digital Image Production - Photoshop ACA

CIS 020 allows you to step into the vibrant world of digital imagery and photography. This course welcomes learners of all skill levels to embark on a creative journey through Adobe Photoshop. From mastering image editing to exploring tools like filters and masks, students will delve into the art of visual storytelling. With an emphasis on creativity and industry standards, CIS 020 offers a supportive environment where students can refine their design skills and prepare for the Adobe Certified Associate Photoshop exam. Join us and unlock your potential in the dynamic realm of digital design!

CIS 021 Desktop Publishing**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: CSU*

Desktop Publishing

CIS 021 dives into the exciting world of digital 2D design and typography! Whether you're a beginner or have some experience, this course is designed to equip you with the essential skills needed to create stunning digital layouts. Using Adobe InDesign, we'll explore design principles and techniques while working on a variety of hands-on projects, including postcard mailers, event posters, and business cards. Our focus is not just on mastering technical skills, but also on nurturing your creative vision through real-world simulations. Join us and unleash your creativity in this dynamic and inclusive learning environment!

CIS 022 Digital Image Prod - Illus**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: UC/CSU*

Digital Image Production - Illustrator ACA

CIS 022 takes you on a creative journey where we explore the fundamentals of digital illustration and vector graphics. This course introduces you to the diverse tools available in Adobe Illustrator, allowing you to master shapes, colors, effects, and typography basics. Through regular critiques, we foster creativity and reinforce design principles, ensuring alignment with industry standards. Whether you're a beginner or an experienced artist, join us to unleash your creativity and elevate your design skills with Adobe Illustrator.

CIS 022A Digital Motion Graphics**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: UC/CSU*

Digital Motion Graphics

CIS 022A invites learners of all backgrounds and skill levels to delve into the captivating realm of motion graphics. This course offers a comprehensive exploration of essential principles, from seamlessly integrating 2D graphics and video to perfecting typography and sound synchronization. Students will navigate key concepts such as composition, storyboarding, and project planning, while also honing their abilities in setting keyframes, manipulating motion paths, and applying transformative effects. With hands-on guidance and immersive exercises, participants will acquire the skills needed to bring their creative visions to life, making CIS 022A an engaging and rewarding journey for everyone.

CIS 023 Digital Video Production**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: UC/CSU*

Digital Video Production

CIS 023 offers an inclusive exploration into the dynamic world of video production, spanning diverse distribution channels from broadcast television to online platforms. Regardless of skill level, students embark on a journey to grasp the essential theory and practice of video production, including non-linear editing techniques. They learn to meticulously plan and integrate various media elements into cohesive narratives, tailored to meet project goals and audience expectations. Hands-on training with cutting-edge equipment and software equips students with the technical prowess needed to capture and assemble compelling visual stories.

CIS 024A Game Design Essentials**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: UC/CSU***Game Design Essentials**

CIS 024A welcomes students of all skill levels to embark on a creative journey exploring the Unity game engine. This course serves as a foundational gateway into the world of Unity, offering theoretical insights and hands-on application. Through engaging projects and demos, students will hone their Unity skills, showcasing their proficiency through exportable projects in diverse formats. From level design to basic 3D modeling, lighting techniques, animation, particle effects, and UI creation, students will gain a holistic understanding of Unity as a versatile design tool. Join us to unlock your creative potential and dive into the exciting realm of game development with Unity!

CIS 024B Game Art Essentials**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: UC/CSU***Game Art Essentials**

CIS 024B welcomes students of all skill levels to dive into the theory and practice of industry-standard software such as Photoshop, Mudbox, Maya, and Unity. Discover the exciting world of game design as you create a sample prototype project within the Unity Game Engine. From crafting 2D and 3D assets with basic animation using Adobe Photoshop, Autodesk Mudbox, and Autodesk Maya, to seamlessly integrating them into Unity, you'll be equipped to build your own game design portfolio.

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

CIS 025 allows you to embark on a journey into the dynamic world of audio production. This course offers a warm introduction to theory and practical application across diverse media platforms like radio, television, gaming, and more. Discover the core principles of sound design, microphone usage, and digital recording techniques through engaging hands-on activities. By the course's end, you'll have a solid grasp of essential audio concepts, production workflows, and the tools needed to create captivating audio content. Join us and unleash your creativity in the exciting realm of audio production!

CIS 028 Digital Entrepreneurship**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: CSU***Digital Entrepreneurship**

CIS 028 Digital Entrepreneurship explores creating, marketing, distributing, and profiting in the creative economy. Students learn how entrepreneurs validate concepts through structure experiments, refine their business strategy, and raise the capital necessary to create value and grow their business.

CIS 031A MS PowerPoint I**(1)***Class Hours: 18 Lecture**Transfers to: CSU**C-ID: BSOT 114X***MS PowerPoint I**

CIS 031A provides the learner with experience planning, creating, editing, and printing PowerPoint presentations. Included is the opportunity to add and modify both text and graphics; insert and modify information graphics and multimedia; apply, modify, and create master pages; and to apply, modify, and create templates. integration with other Microsoft programs is included. This course is designed for all individuals including professional acquiring or updating basic skills in creating and editing professional presentations. This course prepares for the Microsoft Office User Certification in MS PowerPoint.

CIS 031B MS PowerPoint II**(1)***Class Hours: 18 Lecture**Prerequisite(s): CIS 031A**Transfers to: CSU**C-ID: BSOT 124X**P/NP*

MS PowerPoint II

CIS 031B features PowerPoint as a tool for designing, producing and controlling visual elements to build and deliver effective presentations. Creating templates, publishing, customizing, and protecting presentations as well as inserting audio, video, and animations and integrating with other programs is included. This course focuses on the design and effective delivery methods which are explored through project presentations.

CIS 032A MS Outlook**(1)***Class Hours: 18 Lecture**Advisory(s): Computer Literacy or equivalent**Transfers to: CSU**C-ID: BSOT 106X**P/NP*

MS Outlook

CIS 032A introduces personal management software and the use of Microsoft Outlook functions. Topics include management of email, organization of contacts, creation and scheduling of events using calendar, and creating and managing tasks for personal and business use. Customization of Outlook features is also covered.

CIS 034 Introduction to Spreadsheets**(3)***Class Hours: 54 Lecture**Transfers to: CSU**P/NP*

Introduction to Spreadsheets

CIS 034 is designed to cater to individuals of all skill levels, from beginners to advanced users, who are eager to enhance their proficiency in Excel. Through engaging lessons, you will discover the command structure and operations of Excel, delve into spreadsheet design and formatting techniques, explore the creation of graphs, and harness the power of database functions.

CIS 035 Advanced Spreadsheets**(3)***Class Hours: 54 Lecture | 9 Laboratory**Prerequisite(s): CIS 034**Transfers to: CSU**P/NP*

Advanced Spreadsheets

CIS 035 will dive deep into the world of Microsoft Excel as an advanced spreadsheet course! Whether you're an intermediate user looking to sharpen your skills or an advanced Excel aficionado seeking to elevate your expertise, this course is tailored to meet your needs. Explore the advanced features of Excel, including file management, multiple worksheets, data tables, scenario management, and application development with macros using Visual Basic. Come and take your Excel proficiency to new heights with CIS 035!

CIS 049 Directed Study**(1 - 2)***Class Hours: 108 Laboratory**Transfers to: CSU*

Directed Study

CIS 049 is designed for students who wish to undertake special projects related to a particular field. Student, under instructor guidance and acknowledgement, may pursue individual exploration after completing or while currently enrolled in at least one course in the department of directed study.

Crop Science (CRPSCI)

CRPSCI 001 **Intro to Plant Science** (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: UC/CSU

C-ID: AG-PS 106L

Introduction to Plant Science

CRPSCI 001 is designed to provide students with a working knowledge of plant science including structure, growth process, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber and ornamental plants. Techniques of research, exploration of plant growth and identification of economical crops will be included.

CRPSCI 002 **Plant Science Theory** (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: AG-PS 104

Plant Science Theory

CRPSCI 002 is designed to provide students with a working knowledge of plant science including structure, growth process, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber and ornamental plants. Techniques of research, exploration of plant growth and identification of economical crops will be included.

CRPSCI 006 **Intro to Precision Agriculture** (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Introduction to Precision Agriculture

CRPSCI 006 provides students with an introduction to precision agriculture. An overview of the technological tools and processes that are used will provide students with the ability to converse knowledgeably with precision ag specialists or technicians. It will also be valuable to managers and supervisors who want a broad view of precision ag in order to make a decision on usefulness or value of precision ag.

CRPSCI 007 **Advanced Precision Agriculture** (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Advanced Precision Agriculture

CRPSCI 007 provides an in depth study into precision agriculture, including: vehicle navigation and guidance, remote sensing, yield monitoring, site-specific crop management, and variable rate technology. Additional topics include: methods of applying agrichemicals, sprayer calibration, site-specific fertilizer management, soil and tissue testing, integrated pest management and soil amendments. Subjects such as electrical, hydraulics and instrumentation will be covered as they apply to the precision agriculture industry.

CRPSCI 008 **App of Geospatial Technology** (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: UC/CSU

Applications of Geospatial Technology

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 & Sensor Systems in Ag (3)*Class Hours: 36 Lecture | 54 Laboratory**Transfers to: CSU***Control and Sensor Systems in Ag**

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 auto guidance, 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**Transfers to: CSU***Precision Ag Software**

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.

CRPSCI 019 California Water (3)*Class Hours: 54 Lecture**Transfers to: UC/CSU***California Water**

CRPSCI 019 is an interdisciplinary examination of California's water use and management with an historical emphasis on the politics and conflict arising from water scarcity. Instruction in the fundamentals of irrigation application and measurement systems will be provided. Included will be a study of the basic irrigation systems: flood, sprinkler, micro, sub-irrigation and their variations. California's water systems and water quality problems will be reviewed.

CRPSCI 021 Orchard Production (3)*Class Hours: 36 Lecture | 54 Laboratory**Transfers to: UC/CSU***Orchard Production**

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 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**Transfers to: CSU***Row Crop Production**

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 provides hands-on experience with geospatial, sensor, and control technologies as applied to row crop production.

CRPSCI 032 Weeds and Poisonous Plants (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Weeds and Poisonous Plants

CRPSCI 032 is the study of the classification, identification, and life cycle of common and poisonous weeds in California production areas and grasslands and their effects on animals and humans including management practices such as prevention, and mechanical, biological, and chemical control methods. Weeds establishment and chemical resistance will also be discussed. Laboratory required.

CRPSCI 036 Fertilizers and Soil Amendment (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Fertilizers and Soil Amendments

CRPSCI 036 is the study of the composition, value, selection, and use of fertilizer materials and soil amendments within the context of soil, plant, and fertilizer relationships. Application practices currently being used in California will be discussed.

CRPSCI 044 Economic Entomology (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: UC/CSU

Economic Entomology

CRPSCI 044 explores the diverse and evolutionary advanced world of insects and mites, leading to a fundamental understanding of applied insect and mite ecology and taxonomy. Emphasis is placed on arthropod species of economic importance to humans. This class will delve into the morphology, taxonomy, identification, life cycles, hosts, habitat relationships, and control methods of these organisms. Students will actively engage in hands-on learning through the collection and labeling of specimens and laboratory activities designed to provide a collaborative and supportive space that explores the fascinating interactions between insects, mites, and agriculture. Collection and labeling of specimens will be required. Laboratory required. Recommended for Pest Control Advisors' licensing.

CRPSCI 045 California Pest Control Laws (2)

Class Hours: 36 Lecture

Transfers to: CSU

California Pest Control Laws and Regulations

CRPSCI 045 covers the laws and regulations concerning pest control in California. This course is intended to cover the material needed to pass the laws and regulations section for the California Department of Pesticide Regulations Pest Control Adviser examination.

CRPSCI 046 Integrated Pest Management (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Integrated Pest Management

CRPSCI 046 studies the origin, history, and management measures for insect, plant pathogen, weed, and other pests of field crops, pest biology and life cycles are studied to demonstrate the use of various Integrated Pest Management (IPM) technologies for economic crop production. Pesticide regulations, application, formulations, and materials for specific uses are covered.

CRPSCI 049 Directed Study (1 - 2)

Class Hours: 108 Laboratory

Directed Study

CRPSCI 049 is designed for students who wish to undertake special projects related to a particular field. Students, under instructor guidance and acknowledgement, may pursue individual exploration after completing or while currently enrolled in at least one course in the department of directed study.

Diesel Technology (DT)

DT 050 State Laws and Fed Regulations (3)

Class Hours: 54 Lecture

State Laws and Federal Regulations

DT 050 provides students with an introduction to the trucking industry, rules, and regulations to prepare students for the written test to obtain a CLP (Commercial Learners Permit) from the state of California. Students will also complete the FMCSA (Federal Motor Carrier Safety Administration) requirements for the theory portion of the ELDT (Entry Level Drivers Training). Individuals must be at least 18 years of age and have a valid driver's license in order to hold a CLP.

DT 052 Safe Operation Fundamentals (3)

Class Hours: 54 Lecture

P/NP

Safe Operation Fundamentals

DT 052 will prepare you with the skills and knowledge for a career in the Truck Driving industry. Faculty will provide a supportive and inclusive learning environment covering vehicle inspection and control portions for the Commercial Drivers License (CDL) in the state of California. Students will leave the class well-prepared for both federal and state commercial driving requirements.

DT 053 Cargo Handling and Securement (1)

Class Hours: 27 Lecture | 9 Laboratory

Cargo Handling and Securement

DT 053 provides practical and theoretical training in the operation of material handling equipment (forklift and pallet jack), and the loading and securement of cargo on various types of commercial vehicles. Students receive training in loading commercial vehicles to comply with both axle weight and securement laws. In addition, students also develop their skills in minor maintenance for an inspection of load securement devices.

DT 058 Operations of Commercial Vehic (3)

Class Hours: 18 Lecture | 108 Laboratory

Operations of Commercial Vehicles I

DT 058 provides practical and theoretical knowledge in the operation of two- and three-axle tractor-trailer combinations on a driving range and highway. Students will drive commercial vehicles equipped with automatic transmissions and be introduced to shifting a 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. Students will also complete the FMCSA (Federal Motor Carrier Safety Administration) requirements for the behind-the-wheel public road portion of the ELDT (Entry Level Drivers Training).

DT 059 Operations of Commercial Vehi (3)

Class Hours: 108 Lecture | 18 Laboratory

Prerequisite(s): DT 058

Operations of Commercial Vehicles II

DT 059 provides practical and theoretical knowledge in the operation of two- and three-axle tractor-trailer combinations on a driving range and highway with lengths over 65 feet, including single and double trailers. Students will develop hand, eye, and foot coordination for shifting various types of dual-range transmissions on the driving range and in real-life city and highway traffic.

DT 074 Hazardous Materials Transporta (1)

Class Hours: 18 Lecture

Hazardous Materials Transportation

DT 074 provides theoretical training for the transportation of hazardous materials and satisfies the Federal Motor Carriers Entry Level Drivers Training requirement.

DT 079 Commercial Driver Testing (0.5)*Class Hours: 27 Laboratory**Co-Requisite(s): DT 050, DT 052, and DT 058*

Commercial Driver Testing

DT 079 offers students the opportunity to test for a commercial drivers license with the California DMV (Department of Motor Vehicles). Students will utilize classroom and laboratory experiences to license as a commercial driver.

DT 094 Introduction to Diesel Engine (3)*Class Hours: 36 Lecture | 54 Laboratory*

Introduction to Diesel Engine Repair

DT 094 explores the operation and repair of modern diesel engines. Principles and theories are studied by running, testing, diagnosing, disassembling and reassembling components, systems and engines.

DT 095 Advanced Diesel Engine Repair (3)*Class Hours: 36 Lecture | 54 Laboratory**Prerequisite(s): DT 094*

Advanced Diesel Engine Repair

DT 095 explores the operation and repair of modern computer controlled diesel engines, emissions systems and components. Advanced principles and theories are studied by testing, diagnosing, disassembling and reassembling engine components and systems.

DT 096 Hydraulics (3)*Class Hours: 36 Lecture | 54 Laboratory*

Hydraulics

DT 096 explores the operation and repair of agriculture and industrial heavy equipment hydraulic systems; pumps, valves, cylinders, motors, hydrostatic drives, hoses and fittings as well as electronic controls. Advanced principles and theories operation, pressure and flow are studied by testing, diagnosing, disassembling, repairing and reassembling heavy equipment hydraulic components and systems.

DT 097 Equipment Systems (3)*Class Hours: 36 Lecture | 54 Laboratory*

Equipment Systems

DT 097 explores the operation and repair of agriculture and industrial heavy equipment systems including: drive systems, brakes and braking, tracks and tires, auxiliaries, air conditioning, electronics, and computer controls. Advanced principles and theories are studied by testing, diagnosing, disassembling, repairing and reassembling heavy equipment components and systems.

Earth Science (ESCI)**ESCI 002 Introduction to Earth Science (4)***Class Hours: 54 Lecture | 54 Laboratory**Transfers to: UC/CSU**C-ID: GEOL 121**P/NP*

Introduction to Earth Science

ESCI 002 is your gateway to understanding our amazing planet. In a supportive and encouraging setting, you will gain an understanding of the physical processes that have shaped, and continue to shape, our world. We will study the connections and interactions between Earth's four "spheres", the hydrosphere (water), the atmosphere (air), the biosphere (living), and the lithosphere (land). This course welcomes everyone, with a central focus on preparing students for K-12 careers teaching Earth and Space Sciences.

Economics (ECON)

ECON 001A Macroeconomics (3)

Class Hours: 54 Lecture

Prerequisite(s): MATH 061

Advisory(s): MATH 063

Transfers to: UC/CSU

C-ID: ECON 202

Macroeconomics

ECON 1A is an introductory course focusing on aggregate economic analysis. Course topics include market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and financial institutions, monetary and fiscal policy, international economics, and economic growth.

ECON 001B Microeconomics (3)

Class Hours: 54 Lecture

Prerequisite(s): MATH 061

Advisory(s): MATH 063

Transfers to: UC/CSU

C-ID: ECON 201

Microeconomics

ECON 001B is an introductory course focusing on choices of individual economic decision-makers. Course topics include scarcity, specialization and trade, market equilibrium, elasticity, production and cost theory, market structures, factor markets, and market failure.

Education (EDUC)

EDUC 001 Introduction to Teaching (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A (ENGL C1000)

Transfers to: UC/CSU

C-ID: EDUC 200

Introduction to Teaching

EDUC 001 introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a professional and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher.

EDUC 005 Critical Think. in the Classrm (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A (ENGL C1000)

Prerequisite(s): EDUC 001

Transfers to: UC/CSU

Critical Thinking in the Classroom

EDUC 005 is a critical thinking class intended for students who are considering teaching as a profession. Principles and methods of critical thinking will be applied and covered. Concepts covered are as follows: identifying arguments, developing reasoning skills, and identifying common fallacies blended with applications of these concepts into a K-8 classroom environment.

English (ENG)

ENG 002 Introduction to Literature (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: ENGL 120

Introduction to Literature

ENG 002 introduces representative works from major genres, develops students' close reading and analytical writing skills, and promotes appreciation and critical understanding of the cultural, historical, and aesthetic qualities of literature.

ENG 006 Early American Literature (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A (ENGL C1000)

Transfers to: UC/CSU

C-ID: ENGL 130

Early American Literature

ENG 006 introduces students to America's literary traditions from their beginnings to the second half of the nineteenth century. Through analysis of varied works, including Native American tales through Colonial perspectives, students will engage in critical thinking, gaining a deeper understanding of the early literary traditions that shaped the country.

ENG 007 Early British Literature (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A (ENGL C1000)

Transfers to: UC/CSU

C-ID: ENGL 160

Early British Literature

ENG 007 introduces students to British literature, providing a chronological survey of its development from the early Middle Ages to the late eighteenth century. Special attention is given to critical thinking, analytical writing skills, and appreciation of British literature through discussion and written analysis of representative works in their historical, linguistic, and cultural contexts.

ENG 008 Modern British Literature (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A (ENGL C1000)

Transfers to: UC/CSU

C-ID: ENGL 165

Modern British Literature

ENG 008 surveys British literature from the late eighteenth century to contemporary British and postcolonial texts. Explores the historical, political, and social contexts of the works and the major themes which reflect and/or critique the social assumptions of the times. Besides fostering an understanding of works essential to western culture, the course examines how these works are still influential and relevant to contemporary thought and culture.

ENG 025 Creative Writing**(3)***Class Hours: 54 Lecture**Prerequisite(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: ENGL 200***Creative Writing**

ENG 025 provides theory and practice in the reading and writing of fiction, poetry, and creative nonfiction. Students will study great works of literature, emphasizing the choices writers make and the impact those choices have on readers. Students will use their understanding of writer's choices to then write their own works of literature, gaining experience in all three genres while focusing on one specific genre for their semester project. Emphasis is placed on critiquing of professional manuscripts and peer review.

ENG 051A Intro. to Communication Skills**(3)***Class Hours: 54 Lecture**Corequisite(s): ENG 001A (ENGL C1000)***Introduction to Communication Skills**

ENG 051A aids students in developing the necessary skills and experiences to make them effective readers, writers, and speakers. The course provides practice in reading, in writing essays of 750 words or more, and in verbal communication. .

English (ENGL)

ENGL C1000 Academic Reading and Writing**(3)***Class Hours: 54 Lecture**Prerequisite(s): ENG 051A**Anti-Requisite - ESL 001:**Transfers to: UC/CSU**C-ID: ENGL 100***Academic Reading and Writing**

In this course, students receive instruction in academic reading and writing, including writing processes, effective use of language, analytical thinking, and the foundations of academic research.

ENGL C1001 Critical Thinking and Writing**(3)***Class Hours: 54 Lecture**Prerequisite(s): ENGL C1000 or equivalent**Transfers to: UC/CSU**C-ID: ENGL 105***Critical Thinking and Writing**

In this course, students receive instruction in critical thinking for purposes of constructing, evaluating, and composing arguments in a variety of rhetorical forms, using primarily non-fiction texts, refining writing skills and research strategies developed in ENGL C1000 Academic Reading and Writing (or C-ID ENGL 100) or similar first-year college writing course.

English As a Second Language (ESL)

ESL 001 Composition for College (5)

Class Hours: 90 Lecture

Advisory(s): ESL 135

Anti-Requisite(s) ENG 001A (ENGL C1000):

Transfers to: UC/CSU

C-ID: ENGL 100

Composition for College

ESL 001 is the study of standard college-level reading, writing, speaking and listening focusing on critical thinking skills. Students will practice the writing process by composing essays with effective writing skills and will develop academic literacy by employing advanced techniques of essay and research writing with an emphasis on critical thinking, argumentation or other rhetorical strategies, synthesis of research materials, and academic citation. Each module will reinforce the development of English reading, writing, grammar, presentation, communication, and research skills. This course is the equivalent of ENG001A.

ESL 120 Conversation Practice & Everyday (3)

Class Hours: 54 Lecture

P/NP

Conversation Practice & Everyday English

ESL 120 is for students whose native language is not English. This course includes listening and speaking practice with an emphasis on developing conversation skills for everyday situations.

ESL 210 ESL for College and Work (3)

Class Hours: 54 Lecture

ESL for College and Work

ESL 210 is designed to help the English Language Learner acquire general language skills needed to function effectively in work and academic environments. Emphasis is placed on the practice of listening, speaking, reading, writing, and computer skills. This low-intermediate level ESL course develops oral and written communication skills in English within the context of work environments. Students study and practice vocabulary for communicating with employers, customers, and industry professionals. Students learn about their profession and explore opportunities in their career industry.

ESL 125 Conversation Practice Inter Le (3)

Class Hours: 54 Lecture

P/NP

Conversation Practice Intermediate Level

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 and fluency. Students may enroll in 1 unit (6 weeks of study), 2 units (12 weeks of study), or 3 units (18 weeks of study) per semester.

ESL 130 Reading and Writing Beginning (3)

Class Hours: 54 Lecture

P/NP

Reading and Writing Beginning Level

ESL 130 is for students whose native language is not English. This course emphasizes beginning reading, basic grammar, and sentence writing. Students may enroll in 1 unit (6 weeks of study), 2 units (12 weeks of study), or 3 units (18 weeks of study) per semester.

ESL 135 Reading and Writing Intermedia (3)

Class Hours: 54 Lecture

P/NP

Reading and Writing Intermediate Level

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.

Equine Science (EQSCI)

EQSCI 008 **Groom Elite I** (3)
Class Hours: 36 Lecture | 54 Laboratory P/NP
Transfers to: CSU

Groom Elite I

EQSCI 008 prepares students for entry level jobs in the racing industry. The course covers horse care skills that are essential to effective racing programs such as horse health, stable management, feeding, and race day activities. The course is part of a two-part series that prepares students for Groom Elite Certification.

EQSCI 009 **Groom Elite II** (3.5)
Class Hours: 36 Lecture | 90 Laboratory
Prerequisite(s): EQSCI 008
Transfers to: CSU

Groom Elite II

EQSCI 009 is the second course in a two-part series that prepares students for employment in the horse racing industry. The course covers knowledge and skills that are essential to an advanced understanding of horse care such as injuries, therapy, and race day activities.

Ethnic Studies (ES)

ES 001 **Introduction to Ethnic Studies** (3)
Class Hours: 54 Lecture
Transfers to: UC/CSU
C-ID: SJS 110

Introduction to Ethnic Studies

ES 001 examines social justice movements in relation to ethnic and racial groups in the United States to provide a basis for a better understanding of the socio-economic, cultural, and political conditions among key social groups. The course provides an Interdisciplinary study of race, and ethnicity, in the United States. Emphasis is placed on Native Americans, African Americans, Chicana/o/@/e/x, and Asian Americans.

Food Science & Safety (FSS)

FSS 005 **Food Safety Mgmt/ App to Prod** (3)
Class Hours: 54 Lecture
Transfers to: CSU

Food Safety Management With Application To Production Systems

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
Transfers to: CSU

Food Chemistry

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

Transfers to: CSU

Microbiology of Foods

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 & Regulations (2)

Class Hours: 36 Lecture

Transfers to: CSU

Agriculture Laws and Regulations

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 (3)

Class Hours: 54 Lecture

Transfers to: CSU

Principles of Hazard Analysis and Critical Control

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 S (3)

Class Hours: 54 Lecture

Transfers to: CSU

Audits, Preventive Controls and Produce Safety

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

Transfers to: CSU

Principles of Food Science

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**Transfers to: CSU*

Facility Food Safety Management

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.

Foreign Language Spanish (FLSPN)**FLSPN 011 Intro Span Limit Bilingual****(4)***Class Hours: 72 Lecture**P/NP**Advisory(s): Limited Spanish-speaking back-ground and no schooling in Spanish either in U.S. or any Spanish speaking country, or consent of instructor**Transfers to: UC/CSU*

Introductory Spanish for the Limitedly Bilingual

FLSPN 011 presents current Spanish giving students the first steps to functioning more effectively in their language and culture. This first semester course is an introduction to correct Spanish for the minimally bilingual student with emphasis on writing, reading, and grammar. Expansion of basic vocabulary and the essentials of grammar are presented along with an introduction to Hispanic culture. (AA, CSU, UC) (Spanish 11 is not suggested for the monolingual student) Spanish 11 and 1 cannot both be taken for credit.

FLSPN 012 Element Span/Limitedly Biling.**(4)***Class Hours: 72 Lecture**P/NP**Advisor(s): FLSPN 011 preliminary level schooling in a Spanish-speaking country (1-4yrs); limited Spanish-speaking background and one year of high school Spanish; or consent of instructor**Transfers to: UC/CSU*

Elementary Spanish for the Limitedly Bilingual

FLSPN 012 presents current Spanish giving students the first steps for functioning effectively in their language and culture. This second semester course continues an introduction to correct Spanish for the minimally bilingual student with an emphasis on writing, reading, and grammar. It includes expansion of basic vocabulary and the essentials for grammar, along with an introduction to Hispanic culture. (Spanish 012 is for non-Spanish speaking student. It is not suggested for the bilingual student.)

FLSPN 051 Intro Conv Span/Personal/Prof**(3)***Class Hours: 54 Lecture**P/NP**Advisory(s): ENG 051*

Introductory Conversational Spanish for Personal and Professional Use

FLSPN 051 presents the essentials of grammar with an emphasis on communication for personal or professional use. Practice is designed to focus on specific vocabulary needs according to personal need or profession.

FLSPN 052 Elem Conv Span Pers/Prof Use**(3)***Class Hours: 54 Lecture**P/NP**Prerequisite(s): FLSPN 051, Advisory(s)*

Elementary Conversational Spanish For Personal and Professional Use

FLSPN 052 builds upon FLSPN 051 and introduces further essentials of grammar with an emphasis on oral practice to develop skill in communication for personal or professional use. Practice is designed to focus on specific vocabulary needs by expanding the vocabulary of the previous course in specific areas that address professional or personal need.

FLSPN 054 Adv Conv Span Personal/Prof (3)*Class Hours: 54 Lecture**Prerequisite(s): FLSPN 053*

Advanced Conversational Spanish Personal And Professional Use

FLSPN 054 continues presentation of the essentials of grammar with an emphasis on oral practice to develop skill in communication for personal or professional use. Practice is designed to focus on specific vocabulary needs according to professional or personal need. May be taken two times for credit.

General Work Experience (WE)

WE 015XX General Work Experience (1 - 6)*Class Hours: Work Experience**Transfers to: CSU*

General Work Experience

WE 015XX develops skills and knowledge by integrating classroom study with planned, supervised work experience. It is based on the principle that well-educated individuals develop most effectively through an educational plan that incorporates work experience. Through these structured experiences, the students enrich their college studies, which enhance their total development. Occupational Work Experience is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes, and career awareness in the field of the student's major. Students may earn up to 8 units per semester for a maximum of 16 total units. Credits are awarded for paid or voluntary work. For every 75 hours of paid work completed within the semester, 1 unit of credit is awarded. For every 60 hours of volunteer work completed within the semester, 1 unit of credit is awarded. Occupational Work Experience credits are counted as electives toward an Associate's Degree at West Hills College Coalinga and are transferable to four year universities (for specific transfer eligibility, please contact a counselor or an advisor).

Geography (GEOG)

GEOG 001 Physical Geography (4)*Class Hours: 54 Lecture | 54 Laboratory**Advisory(s): ENG 001A (ENGL C1000) and Eligibility for transferable mathematics**Transfers to: UC/CSU**C-ID: GEOG 115*

Physical Geography

GEOG 001 focuses on the interconnected systems shaping our planet Earth's diverse landscapes. We will explore atmospheric processes, weather patterns, landforms, and ecosystems, examining how physical processes create unique spatial patterns across the globe. Through maps and analysis, we will investigate how these systems interact, create opportunities and challenges, and how human actions influence our environment.

GEOG 002 World Regional Geography (3)*Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: GEOG 125*

World Regional Geography

GEOG 002 - Introduces students to basic geographic concepts to help them understand world regional variation and the importance of global diversity and difference. We examine the physical, the environmental and the human characteristics of different regions as well as how they are related and interact. We emphasize relations among regions, people and look at topics such as trade, economic development, population dynamics, racial ethnic differences. We also analyze the role of regions in the process of globalization as well as the role of diversity and inclusiveness and how they relate to a regions ability to thrive and adapt in the face of uncertainties and rapid global changes.

GEOG 003 Cultural Geography**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: GEOG 120**P/NP***Cultural Geography**

GEOG 003 introduces students to the relationship between geography and the development of human cultures. It investigates how geography serves as a frame upon which communities and social groups developed their languages, religions, food and so many other aspects of culture. Particular attention is placed on how these systems of culture interacted with one another and across different places and spaces to create and mold different racial-ethnic groups.

GEOG 005 Intro to Weather and Climate**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: GEOG 130**P/NP***Introduction to Weather and Climate**

GEOG 005 introduces students to atmospheric processes including solar radiation and energy balances, temperature, seasonal changes, moisture exchanges, atmospheric pressure, winds and global circulation, and severe weather conditions. In addition, global, regional, and local climates are investigated as well as the differential impacts on communities of people. Student work will include weather observations and analysis of atmospheric data using charts, weather maps, and radar and satellite imagery from the Internet and other sources.

GEOG 016 Regional Field Studies**(1)***Class Hours: 3 Lecture | 45 Laboratory**Transfers to: UC/CSU**C-ID: GEOG 160**P/NP***Regional Field Studies**

GEOG 016 provides the opportunity for students to conduct field studies and to explore the physical and diverse cultural landscape of a selected region. The class focuses on the physical and cultural processes, characteristics, landscapes, cultural diversity, social inequality and racial-ethnic relations. Analysis of specific content will vary by geographic region.

GEOG 018 Geography of California**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: GEOG 140**P/NP***Geography of California**

GEOG 018 explores California's physical features, such as its mountains, valleys, deserts, and coastline, and how these features and regions have influenced the human and physical landscape. It examines the location, description, and interplay of California's human and natural resources, the influence of physical features upon the economic activities, and the sequence of occupation of California. Topics include California's weather & climate, natural resources, native vegetation & flora, cultural landscapes, population, demography, ethnic diversity, racial-ethnic relations, agricultural & urban regions, water resources, and California's economy.

GEOG 049 Directed Study**(1 - 2)***Class Hours: 108 Laboratory**Transfers to: CSU***Directed Study Course**

GEOG 049 is designed for students who wish to undertake special projects related to a particular field. Students, under instructor guidance and acknowledgment, may pursue individual exploration after completing or while currently enrolled in at least one course in the department of directed study.

Geology (GEOL)

GEOL 001 Physical Geology **(4)**

Class Hours: 54 Lecture | 54 Laboratory

Transfers to: UC/CSU

C-ID: GEOL 100/101

Physical Geology

GEOL 001 is an introduction to the physical and chemical forces active on the earth, including a survey of minerals, rocks, vulcanism, geomorphology, and structural geology. also covered are the agents of weathering, erosion, earthquakes, the earth's interior, glaciation, oceans, rock mobility, metamorphism, sedimentation and the formation of economic mineral deposits.

GEOL 003 Historical Geology **(4)**

Class Hours: 54 Lecture | 54 Laboratory

Transfers to: UC/CSU

C-ID: GEOL 111

Historical Geology

GEOL 003 is the study of the origin and history of the Earth, the formation of the continents and oceans and the changes they have experienced, the history and distribution of rock formations and mountains, fossils as aids to the dating of rocks, geological time, and the development of living things.

Guidance Studies (GS)

GS 100 Transition to College for Stud **(0.5)**

Class Hours: 9 Lecture

P/NP

Transition to College for Students With Disabilities

GS 100 will assist students with disabilities in preparing for initial semester in a community college. Navigation of West Hills College-Coalinga campus, resources, academic policies, procedures, and services. Course content with cover issues related to accommodations and resources available to students with disabilities to enable them to be successful in a college setting, including disability evaluation and assessment, alternative media, course selection, and scheduling.

GS 102 Guidance Studies Math **(1)**

Class Hours: 54 Laboratory

Guidance Studies Math

GS 102 is a course designed primarily for students with learning disabilities. This non-transferrable, non-degree applicable course offers both group and individual instruction in the fundamentals of mathematics. Students will work toward individual and group instructional objectives. Students registered in Disabled Students Program and Services may repeat this course as many times as necessary to achieve course objectives.

GS 103 Guidance Studies Reading & Wri **(1)**

Class Hours: 54 Laboratory

Guidance Studies Reading and Writing

GS 103 is designed primarily for students with learning disabilities. This non-transferable, non-degree-applicable course offers both group and individual instruction in the development of basic reading and written language skills. Students will utilize assistive technology to further enhance the development of English skills. Students registered in the Disabled Students Program and Services may repeat this course as many times as necessary to achieve course objectives.

GS 104 Adapted Computer Literacy**(1)***Class Hours: 18 Lecture**P/NP***Adapted Computer Literacy**

GS 104 provides an introduction to basic computer components and common computer applications with emphasis on developing computer skills and exploring adaptations for effective computer use. This course is designed for students with learning and intellectual disabilities.

GS 105 Consumer Skills**(1)***Class Hours: 18 Lecture**P/NP***Consumer Skills**

GS 105 provides emphasis on home and money management, health, hygiene, and safety, food and nutrition. This course is designed for the students with severe developmental/learning disabilities.

GS 106 Independent Living Skills**(1)***Class Hours: 18 Lecture**P/NP***Independent Living Skills**

GS 106 provides basic independent living skills, including appropriate social interaction, self-advocacy, self-care, community involvement, personal choice and managing life events. Designed for the students with severe developmental/learning disabilities.

GS 061 Guidance Studies Content Area**(1)***Class Hours: 54 Laboratory***Guidance Studies Content Area Support**

GS 061 is intended primarily for students with learning or other disabilities. The goal of this class is to assist students in mastering skills for success in their academic and vocational classes. Students will practice and apply GS 61 course content to their assignments from their academic or vocational classes. Course may be repeated as many times as needed to achieve course objectives.

Health Education (HE)

HE 035 Personal Health and Hygiene**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: PH 100***Personal Health and Hygiene**

In HE 035, we'll embark on a journey together to explore a diverse array of topics that touch upon our health and happiness. We'll chat about nutrition, staying active, and finding balance in our lives, alongside heartfelt conversations about body image, mental well-being, and the importance of healthy relationships. We'll navigate important issues like preventing violence, making informed choices about substances, and understanding reproductive health. With care and consideration, we'll delve into how our environment and healthcare system impact our overall health, as well as gracefully embracing the process of aging. Throughout, you'll gain knowledge and discover practical ways to enhance your own health and well-being.

Health Science (HS)

HS 005 Medical Terminology (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

C-ID: HIT 103X

Medical Terminology

HS 005 emphasizes etymology of disease terms, nomenclature of medical and surgical procedures, use of prefixes, roots, combining forms and plurality of medical terms and common medical abbreviations.

HS 015X Occupational Work Experience (1 - 8)

Class Hours: Work Experience

Transfers to: CSU

Occupational Work Experience

Cooperative Work Experience Education (CWEE) develops skills and knowledge by integrating classroom study with planned, supervised work experience. It is based on the principle that well-educated individuals develop most effectively through an educational plan that incorporates work experience. Through these structured experiences, the students enrich their college studies, which enhance their total development. Occupational Work Experience is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes, and career awareness in the field of the student's major. Students may earn up to 8 units per semester for a maximum of 16 total units. Credits are awarded for paid or voluntary work. For every 75 hours of paid work completed within the semester, 1 unit of credit is awarded. For every 60 hours of volunteer work completed within the semester, 1 unit of credit is awarded. Occupational Work Experience credits are counted as electives toward an Associate's Degree at West Hills College Coalinga and are transferable to four year universities (for specific transfer eligibility, please contact a counselor or an advisor).

HS 040 Introduction to Public Health (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A (ENGL C1000)

Transfers to: UC/CSU

C-ID: PH 101

Introduction to Public Health

HS 040 welcomes students into the vibrant world of Public Health. Throughout the course, participants will explore fundamental concepts and terminology, alongside the inspiring history and achievements of public health leaders and organizations. We'll provide a comprehensive overview of the diverse roles within the field, coupled with an engaging examination of its core disciplines. Together, we'll delve into a variety of essential topics, including the epidemiology of infectious and chronic diseases. We'll discuss strategies for disease prevention and control, emphasizing the analysis of social determinants of health and inclusive approaches to address disparities among diverse populations. Additionally, we'll explore the importance of community organizing and health promotion initiatives, environmental health and safety measures, global health challenges, and the intricacies of healthcare policy and management. Throughout our exploration, we'll foster a welcoming and inclusive environment, recognizing the richness of diversity and perspectives within public health.

HS 045 Drugs, Health, and Society (3)*Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000) or HE 035**Transfers to: UC/CSU**C-ID: PH 103***Drugs, Health, and Society**

HS 045 provides an overview of the epidemiology and toxicology of substance abuse and its relevance to personal and public health. Students will be introduced to the concept of substance abuse and dependence, the definition of licit and illicit drugs, and the pharmacologic, neurological and physiologic effects of selected substances on the human brain. Political, social and economic factors involved in the supply and demand for drugs will be discussed. Epidemiological data on the prevalence, incidence, and trends of smoking, alcohol, prescription and other drug dependencies in the U.S. will be covered, as well as risk factors associated with the use and abuse of these substances. Current options for recovery and a survey of local resources will be reviewed.

HS 048 Social Determinants of Health, Disparities (3)*Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: PH 113***Social Determinants of Health, Disparities and Equities**

HS 048 examines personal and social determinants of health through examination of the role individuals play in their own health and well-being, along with the impact of environmental, social, structural, and cultural factors that also affect individual, community, and public health. Emphasis will be placed on the preventable differences in the burden of disease, injury, violence, or opportunities to achieve optimal health that are experienced by populations that have been disadvantaged by their social or economic status, geographic location, environment, racial and ethnic minority status, disabilities status, gender, people who are LGBTQI+, people with limited English proficiency, and other groups. Learners will develop culturally competent ideas to bridge health equity gaps and improve population health.

HS 061 Nurse Assistant Training (6)*Class Hours: 63 Lecture | 135 Laboratory**Prerequisite(s): Students must be at least 17 years of age, pass a physical examination, and submit fingerprints for FBI and DOJ clearance; Students must possess an "American Heart Association CPR for the Healthcare Provider" certificate.***Nurse Assistant Training**

HS 061 is a nine-week course approved by the Department of Health Services. A combination of theory, skills laboratory, and in-hospital training prepares the student for the certification examination that grants the title of CNA in California.

HS 080 Intro to Medical Professional (2)*Class Hours: 36 Lecture**P/NP***Introduction to Medical Professional**

HS 080 will present prospective health care professionals with industry related principles and expectations for participation as a functional member of the interdisciplinary health care team.

HS 082 Medical Assisting Administrative (8)

Class Hours: 117 Lecture | 81 Laboratory

Prerequisite(s): BUS-028 and HS-080 or HS-005

Entrance Skills: 1) College-level reading and writing in English, 2) Computer literacy skills including Excel, Microsoft Office, Google Docs, and Outlook, and 3) Certification- CPR for Health Care Provider - American Heart Association

Medical Assisting Administrative

HS 082 focuses on the essential front-office/administrative and basic computer skills necessary to support doctors and other medical personnel in front-office and clinical settings as administrative medical assistants. To prepare for a career in the field, you will participate in classroom activities, paced technology activities, and skills lab learning

HS 084 Medical Assisting Clinical (8)

Class Hours: 117 Lecture | 81 Laboratory

Prerequisite(s): HS-082

Entrance Skills: Certification- CPR for Health Care Provider - American Heart Association

Medical Assisting Clinical

HS 084 focuses on the essential back-office clinical skills necessary to support doctors and other medical personnel in a variety of office and clinical settings as a back-office medical assistant. You will participate in the classroom, skills lab, and community learning activities as a part of this course. This course meets the standards and guidelines adopted by the American Association of Medical Assistants Medical Assisting Review Board and the Commission on Accreditation of Allied Health Education Programs

HS 086X Medical Assisting Externship (1 - 2)

Class Hours: Work Experience

Prerequisite(s): HS 082 or HS 084

Medical Assisting Externship

HS 086X is a practical application of the theory and skills learned in the classroom and lab. In this variable unit course, you will participate in the physician's office or clinic providing services under the direct supervision of the clinic manager or physician and the indirect supervision of the internship instructor. In this course you will apply the principles and skills you have learned in class and skills lab to a real-world medical office. Students completing Medical Assisting Administrative will complete 54 hours (1 unit) and students completing Medical Assisting Clinical will complete 108 hours (2 units). To earn the Medical Assisting Certificate of Completion you will complete a total of 162 hours of Medical Assisting Externship.

HS 088 Medical Terminology for Health (2)

Class Hours: 36 Lecture

Medical Terminology for Health Careers

HS 088 will present prospective health care professionals with industry related language, abbreviations, and terminology. Students will learn to build common medical terms by using prefixes, suffixes, roots and stems. Students will apply medical terminology in written and verbal communication activities.

Heating Ventilation & Air Cond (HVAC)

HVAC 060 Fundamentals of HVAC (3)

Class Hours: 18 Lecture | 108 Laboratory

Advisory(s): IMT-060

Fundamentals of HVAC

HVAC 060 provides students with fundamentals of mathematics and electricity as they apply to heating and cooling. An overview of air distribution systems is also covered.

HVAC 061 Intro. Heating and Refrigerati**(4)***Class Hours: 18 Lecture | 162 Laboratory**Advisory(s): IMT-060*

Introduction to Heating and Refrigeration Cycles

HVAC 061 provides students with an introduction to the concepts of how pressure is used to generate heating and cooling in refrigeration and heat pumps. Maintenance of systems will also be introduced.

HVAC 062 HVAC Installation and Trouble**(4)***Class Hours: 18 Lecture | 162 Laboratory**Advisory(s): IMT-060 and HVAC-060*

HVAC Installation and Troubleshooting

HVAC 062 is an intermediate course in the Heating, Ventilating, and Air Conditioning program. Topics include practical and theoretical training in Fasteners, Hardware, Wiring terminations, Control Circuit and Motor Troubleshooting. This course also includes troubleshooting the following areas of HVAC systems including cooling, heat pumps, gas heating, oil heating, and accessories.

HVAC 063 Advanced HVAC Systems**(4)***Class Hours: 18 Lecture | 162 Laboratory**Advisory(s): IMT-060 and HVAC-061*

Advanced HVAC Systems

HVAC 063 provides students with advanced knowledge of residential and commercial HVAC systems including water, steam and air quality related to efficient operation. Advanced skills needed in the workforce including system startup, reading construction drawings and crew leadership will also be covered.

Heavy Equipment (HVEYEQUI)**HVEYEQUI 060A Level I Heavy Equip Operation****(5)***Class Hours: 54 Lecture | 108 Laboratory*

Level I Heavy Equipment Operation

HVEYEQUI 060A is an introduction to heavy equipment operation. Topics include practical and theoretical training in heavy equipment safety, basic operation techniques, and introduction to earth moving and grades.

HVEYEQUI 060B Level II Heavy Equip Operation**(5)***Class Hours: 54 Lecture | 108 Laboratory**Prerequisite(s): HVEYEQUI 060A*

Level II Heavy Equipment Operations

HVEYEQUI 060B is an intermediate course in the Heavy Equipment program. Topics include practical and theoretical training on heavy equipment including dump trucks, scrapers, loaders, and forklifts. The course also includes modules on excavation math and civil blueprint reading.

HVEYEQUI 060C Level III Heavy Equip Op**(5)***Class Hours: 54 Lecture | 108 Laboratory**Prerequisite(s): HVEYEQUI 060B*

Level III Heavy Equipment Operations

HVEYEQUI 060C is an advanced course in heavy equipment operation. This course consists of practical and theoretical training in the operation of dozers; backhoes; excavators; and motor graders. This course also serves as an introduction to crew leadership, project control, and soils.

History (HIST)

HIST 004A Western Civilization to 1700 (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 170

Western Civilization to 1700

HIST 004A is a survey of the development of western culture and civilization from Ancient Mesopotamia and Egypt to the Age of Discovery. Topics will include (but are not limited to) the Greek and Roman legacy, Late Antiquity and the Byzantine World, the Medieval World, the Italian and Northern Renaissance, and the Protestant Reformation.

HIST 004B Western Civilization From 1700 (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 180

Western Civilization From 1700

HIST 004B is a survey of the ongoing evolution of western culture from the 18th century to modernity. Topics will include (but are not limited to) the Age of Revolution, the Industrial Revolution, imperialism, the rise of nationalism, WWI, the Russian Revolution, WWII, and the Cold War.

HIST 017A History of the U.S. 1492-1877 (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A (ENGL C1000) or ESL 001

Transfers to: UC/CSU

C-ID: HIST 130

P/NP

History of the United States 1492-1877

HIST 017A will guide you through the fascinating origins of the United States of America. You will learn about the fascinating world of Mesoamerica before European contact, the colonization of the American continent, the struggles and triumphs associated with colonial life, the American Revolution, the birth of the Republic, the realities and conflicts associated with slavery, and the American Civil War. Throughout the course, you will analyze primary source material and be challenged with differing points of view in an attempt to understand the complex past of our nation.

HIST 017B History of the U.S. 1865-PRES (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A (ENGL C1000) or ESL 001

Transfers to: UC/CSU

C-ID: HIST 140

P/NP

History of the United States 1865-PRESENT

HIST 017B will take you on a fascinating historical journey of the United States from the end of the Civil War to the present. You will learn about the aftermath of Reconstruction, the sordid politics and scandalous social structures of the Gilded Age, the dark side of industrialism, the rise of Progressivism, daily life during the Great Depression, the ascendancy of the United States as a global hegemon following WWII, and the fight for civil rights beginning in the 1960's. You will also analyze eye-opening primary source material in order to draw conclusions about America's complicated past.

HIST 020 World History I**(3)***Class Hours: 54 Lecture**Prerequisite(s): ENG 051A**Transfers to: UC/CSU**C-ID: HIST 150*

World History I

HIST 020 is a survey of the development of world civilizations to 1500. Topics include the civilizations of the Near East, Greece, Rome, Europe, Africa, Asia and Mesoamerica, together with their religious and philosophical traditions.

HIST 021 World History II**(3)***Class Hours: 54 Lecture**Prerequisite(s): ENG 051A**Transfers to: UC/CSU**C-ID: HIST 160*

World History II

HIST 021 will examine the development of world civilizations since 1500. A comparative analysis of cultural, economic, geographic, political, religious, and social forces of world civilizations will be made.

HIST 032 Cultural History of the Chican**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU*

Cultural History of the Chicano

HIST 032 will examine the social, political, and economic experiences of Mexicans living in the United States beginning with their Pre-Columbian heritage through the Spanish colonial era, the Treaty of Guadalupe-Hidalgo, the Great Depression, World War II, and the Civil Rights Movement. Emphasis will be on how these experiences have helped to shape the culture of Chicanos in the modern era.

HIST 044 Women's Roles in U.S. History**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU*

Women's Roles in United States History

HIST 044 will examine the social, economic, and political roles of women in the United States from Pre-Columbian era through the Colonial period, Victorian period, and into the modern era. Contributions of women from various racial and ethnic backgrounds will be discussed.

Hotel, Restaurant, Casino Mgmt (HRCM)**HRCM 001 Intro to Hospitality Management****(3)***Class Hours: 54 Lecture**Transfers to: CSU**C-ID: HOSP 100*

Introduction to Hospitality Management

HRCM 001 is an overview of the structure and financial performances of the hospitality industry. Topics include food and lodging, resorts, tourism enterprises, attractions and related operations. The course has a strong focus on orientation to customer services, cultural/economic trends and career opportunities.

Humanities (HUM)

HUM 001 Intro to Western Culture (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

Introduction to Western Culture

HUM 001 is a survey course dealing with the development of religion, art, literature, drama, music, architecture, philosophy, and "cultural achievements" of the western tradition, with special emphasis upon their historical context.

HUM 022 Intro to Comparative Religion (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A (ENGL C1000)

Transfers to: UC/CSU

Introduction to Comparative Religion

HUM 022 is a historical and comparative survey of the development of the world's religions from prehistory to the present. Special focus is given to indigenous religions, Hinduism, Buddhism, Confucianism, Daoism, Christianity, and Islam.

Industrial Mechanics Tech (IMT)

IMT 060 Industrial Core (3)

Class Hours: 36 Lecture | 54 Laboratory

P/NP

Industrial Core

IMT 060 will prepare you with the skills and knowledge for a career in the skilled trades including Heavy Equipment Operator, Equipment Technician, HVAC Technician, or Welder. Faculty will provide a supportive and inclusive learning environment covering safety, basic trade skills and the soft skills needed to succeed in the industry.

IMT 061 Industrial Maint. Mech Level I (3)

Class Hours: 18 Lecture | 108 Laboratory

Industrial Maintenance Mechanic Level I

IMT 061 provides introductory training for the Industrial Maintenance Mechanic credentials. Topics include orientation to the trade, tools, fasteners and anchors, oxyfuel cutting, gaskets and packing, trade mathematics, construction drawings, pumps and drivers, valves, test instruments, material handling, mobile and support equipment, and lubrication.

IMT 062 Industrial Maint. Mech Lev II (4)

Class Hours: 18 Lecture | 162 Laboratory

Industrial Maintenance Mechanic Level II

IMT 062 provides students with intermediate skills needed to be an industrial maintenance mechanic. Topics include jobsite layout; components of piping systems; copper and plastic pipe; ferrous metal pipe; identification, installation and maintenance of valves; hydrostatic and pneumatic testing; bearings; low-pressure and high-pressure steam systems; distillation towers and vessels; heaters, furnaces, and heat exchangers; cooling tower; fin fans and tube work.

IMT 070 Industrial Maint. Mech Lev III (4)

Class Hours: 18 Lecture | 162 Laboratory

Industrial Maintenance Mechanic Level III

IMT 070 provides students with advanced skills needed to be an industrial maintenance mechanic. Topics include advanced trade math, precision measuring tools, installing bearings and couplings, setting baseplates and prealignment, conventional alignment, installing belt and chain drives and mechanical seals.

Interdisciplinary Studies (IS)

IS 051 Portfolio Development

(1)

Class Hours: 18 Lecture

P/NP

Portfolio Development

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 001 Introduction to Kinesiology

(3)

*Class Hours: 54 Lecture**Advisory(s): ENG 001A (ENGL C1000)**Transfers to: UC/CSU**C-ID: KIN 100*

Introduction to Kinesiology

KINES 001 is an introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.

KINES 002 Intro to Sport & Exercise Psyc

(3)

*Class Hours: 54 Lecture**Transfers to: UC/CSU*

Introduction to Sport and Exercise Psychology

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 045 Coaching Team Sports

(3)

*Class Hours: 54 Lecture**Transfers to: UC/CSU*

Coaching Team Sports

KINES 045 is designed for students interested in coaching team and individual sports. The course will emphasize the components of a coaching philosophy, team culture concepts and the organizational skills needed to implement and conduct a sport program.

KINES 046 Care & Prev of Athletic Injur

(3)

*Class Hours: 36 Lecture | 54 Laboratory**Transfers to: UC/CSU*

Care and Prevention of Athletic Injuries

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.

KINES 048 First Aid and Safety**(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: KIN 101*

First Aid and Safety

KINES 048 course involves the theory and detailed demonstration of the first aid care of the injured. The student will learn to assess a victim's condition and incorporate proper treatment. Students will be awarded American Red Cross First Aid, CPR & AED certifications upon successful completion of the practical skills demonstration and written exam.

Linguistics (LING)**LING 011 Introduction to Linguistics****(3)***Class Hours: 54 Lecture**Prerequisite(s): ENG 051A**Transfers to: UC/CSU**C-ID: ANTH 130*

Introduction to Linguistics

LING 011 serves as a foundation for understanding language from an anthropological perspective, addressing such core questions as how, what, when, where, why and with whom we communicate. This course surveys three core areas in linguistic anthropology: (1) structural linguistics (phonetics, phonology, morphology, and syntax, as well as the bicultural basis of language), (2) historical linguistics (origins, evolution, dialects, and language families), and (3) sociocultural linguistics (language acquisition in cultural context, relationship between language and culture, and issues of language conservation and loss). This course meets the content specifications in reading, language, literature, and linguistics in undergraduate teacher preparation to prepare students to think critically about the world.

Math (MATH)**MATH 001A Introduction to Calculus****(5)***Class Hours: 90 Lecture**Prerequisite(s): MATH 015 or MATH 016**Transfers to: UC/CSU**C-ID: MATH 210*

Introduction to Calculus

MATH 001A is an introduction to differential calculus of elementary functions (including trigonometric, exponential, and logarithmic). The course covers limits, continuity, derivatives, basic integrals, the Fundamental Theorem, and applications.

MATH 001B Calculus With Applications**(5)***Class Hours: 90 Lecture**Prerequisite(S): MATH 001A**Transfers to: UC/CSU**C-ID: MATH 220*

Calculus With Applications

MATH 001B is an introduction to integral calculus. The course covers techniques of integration, applications of integration, improper integrals, polar coordinates, and infinite series.

MATH 002A Multivariate Calculus**(4)***Class Hours:* 72 Lecture*Prerequisite(s):* MATH 001B*Transfers to:* UC/CSU*C-ID:* MATH 230

Multivariate Calculus

MATH 002A is the study of three-dimensional vectors, calculus of functions of more than one variable, lines and planes, vector-valued functions, partial derivatives, multiple integrations, the calculus of vector fields, Green's Theorem, Stokes' Theorem, and the Divergence Theorem.

MATH 002B Differential Equations**(4)***Class Hours:* 72 Lecture*Prerequisite(s):* MATH 002A*Transfers to:* UC/CSU*C-ID:* MATH 240

Differential Equations

MATH 002B is the study of first-order linear differential equations and their applications in science and engineering, linear differential equations of higher order, applications of second-order differential equations to vibrational models, differential equations with variable coefficients, Laplace transformations and systems of linear differential equations. (Please note: This course is offered infrequently.)

MATH 010A Structure & Concepts in Math I**(3)***Class Hours:* 54 Lecture*Prerequisite(s):* MATH 063 or MATH 064*Transfers to:* UC/CSU*C-ID:* MATH 120

Structure & Concepts in Mathematics I

MATH 010A is designed for prospective elementary school teachers. The course covers the development of real numbers including integers, rational and irrational numbers, computation, prime numbers and factorizations, and problem-solving strategies.

MATH 010B Structure & Concepts in Math.**(3)***Class Hours:* 54 Lecture*Prerequisite(s):* MATH 010A*Transfers to:* UC/CSU

Structure & Concepts in Mathematics II

MATH 010B is designed for prospective elementary school teachers. The course covers counting methods, elementary probability, and statistics. Topics from geometry include polygons, congruence and similarity, measurement, geometric transformations, coordinate geometry, and selected applications. This class does not satisfy the G. E. quantitative reasoning requirement for non Liberal Studies majors at four-year institutions.

MATH 016 **Precalculus and Trigonometry** (6)*Class Hours: 108 Lecture**Prerequisite(s): MATH 063 or MATH 064**Transfers to: UC/CSU**C-ID: MATH 955*

Precalculus and Trigonometry

MATH 016 is designed to prepare students for calculus, and includes the study of polynomial, absolute value, radical, rational, exponential, and logarithmic functions, analytic geometry, and polar coordinates. The study of trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, and introduction to vectors.

MATH 017 **Foundations of Advanced Mathem** (4)*Class Hours: 72 Lecture**Prerequisite(s): Placement as determined by the college's multiple measures assessment process or completion of a course taught at or above the level of intermediate algebra.**Transfers to: UC/CSU*

Foundations of Advanced Mathematics

MATH 017 is a great course to review all the different functions before starting your Calculus class. It covers all these functions: linear, polynomial, absolute value, radical, rational, exponential, logarithmic functions, and trigonometric functions. We will be concentrating more on the graphing of the above functions but also going in-depth with the logarithmic and trigonometric functions. We will also cover polar coordinates and graphs as well as arithmetic and geometric sequences

MATH 039 **Quantitative Analysis** (3)*Class Hours: 54 Lecture**Prerequisite(s): MATH 063 or MATH 064**Transfers to: UC/CSU**C-ID: MATH 130*

Quantitative Analysis

MATH 039 is the study of mathematical topics as they relate to finance, systems of equations, linear programming, set theory, combinatorial techniques, and probability. This course also focuses on applications in business, economics, and social sciences.

MATH 045 **Contemporary Math** (3)*Class Hours: 54 Lecture**Prerequisite(s): MATH 063 or MATH 064**Transfers to: UC/CSU*

Contemporary Math

MATH 045 is a college level liberal arts mathematics course surveying a collection of topics including Management Science, Social Choice, Statistics and Growth and Symmetry. (Satisfies CSU Fresno Gen. Ed. CORE, Quantitative Reasoning).

MATH 049 **Mathematics Directed Study** (1 - 2)*Class Hours: 108 Laboratory**Transfers to: CSU*

Mathematics Directed Study

MATH 049/099 are designed for student who wish to undertake special projects related to mathematics. Students, under instructor guidance and acknowledgement, may pursue individual exploration after completing or while currently enrolled in at least one course in the department of directed study.

MATH 061 Elementary Algebra**(5)***Class Hours: 90 Lecture**P/NP**Prerequisite(s): MATH 101 or MATH 100*

Elementary Algebra

MATH 061 is the first course in a two semester sequential elementary and intermediate algebra program. Topics for elementary algebra include arithmetic review, solving linear equations and inequalities in one variable, graphing linear equations and inequalities in two variables, solving linear systems, operations with polynomials, solving equations by factoring, operations with rational expressions, and addition of radical expressions.

MATH 063 Intermediate Algebra**(5)***Class Hours: 90 Lecture**Prerequisite(s): MATH 061*

Intermediate Algebra

MATH 063 is the second course in a two semester sequential elementary and intermediate algebra sequence. Topics for intermediate algebra include factoring, solving quadratic, rational and radical equations, inequalities, integer and rational exponents, graphing conics, functions, scientific notation, and applications.

MATH 064 Elementary & Intermediate Alg**(5)***Class Hours: 90 Lecture**Prerequisite(s): MATH 100*

Elementary and Intermediate Algebra

MATH 064 covers Elementary and Intermediate Algebra in one semester, eliminating the repetitiveness of the traditional two-semester sequence. This course is designed for students who either have had some previous exposure to elementary algebra or have a facility for learning math. This course satisfies the intermediate algebra requirement for any transfer-level math course.

Music (MUS)**MUS 042 Music Appreciation****(3)***Class Hours: 54 Lecture**P/NP**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: MUS 100*

Music Appreciation

MUS 042 is designed to develop a student's aesthetic sensitivity for music of various cultures. It will cover western and non-western music history from major periods.

Non-Credit (NC)**NC 100 Supervised Tutoring****(N/A)***Class Hours: 90 Laboratory**P/NP*

Supervised Tutoring

NC 100 provides tutorial services to assist students in successfully attaining their educational objectives. Hours will vary depending upon individual student needs. Tutoring will take place in the Learning Resource Center.

NC 050 Intro to Tutoring & Supp Instr**(N/A)***Class Hours: 18 Lecture**P/NP*

Introduction to Tutoring and Supplemental Instruction

NC 050 is an intensive introduction to tutoring and Supplemental Instruction (SI) that provides students with information, techniques, and experiences that will make them more effective tutors/SI leaders.

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- NC 061** **Nurse Assistant Training** (N/A)
Class Hours: 198 Lecture P/NP
Prerequisite(s): 1) Students must be at least 17 years of age and pass a physical examination and submit fingerprints for FBI and DOJ clearance. 2) Students must possess an "American Heart Association CPR for the Healthcare Provider" certificate.
- Nurse Assistant Training
NC 061 is a nine-week course approved by the Department of Health Services. A combination of theory, skills laboratory, and in-hospital training prepares the student for the certification examination that grants the title of CNA in California.
- NC 110** **Basic Computer Skills** (N/A)
Class Hours: 54 Laboratory P/NP
- Basic Computer Skills
NC 110 equips students with essential computer skills necessary for success in diverse professional settings. Through engaging lectures and practical computer lab sessions, students will develop proficiency in the Microsoft Office Suite (Word, Excel, PowerPoint, and Outlook), as well as Google Docs, Google Sheets, and other key online platforms built around computer-based tasks. The course covers effective Internet navigation, proper email etiquette, and best practices for digital communication. Additionally, students will gain hands-on experience with word processing, spreadsheets, workbooks, and presentation software, applying these skills to real-world business challenges through interactive projects.
- NC 115** **Foundation of Basic English Sk** (N/A)
Class Hours: 54 Lecture P/NP
- Foundation of Basic English Skills
NC 115 is for students whose native language is not English. This course includes developing non-native speaker oral skills to establish and maintain direct conversation and communication with native speakers of English. This course focuses on a range of skill sets; including improving listening comprehension, speaking through correct grammatical use with an emphasis on developing conversation skills for everyday situations, beginning vocabulary, and sentence building.
- NC 120** **Beg Read Writing & Spk Skills** (N/A)
Class Hours: 54 Lecture P/NP
- Beginning Reading, Writing, & Speaking Skills
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 200** **College Reading and Writing Pr** (N/A)
Class Hours: 36 Lecture P/NP
Corequisite(s): ENG 001A (ENGL C1000)
- College Reading and Writing Preparedness
NC 200 is designed to provide support for students in English 001A. This course will give students additional time in class to better prepare them for the rigorous English 001A material. This course is combined with English 001A; students who wish to receive the additional curricular support will need to be enrolled in this section as well as its 001A counterpart.
- NC 201** **Algebra Support** (N/A)
Class Hours: 36 Lecture P/NP
Corequisite(s): MATH 063 or MATH 064
- Algebra Support
NC 201 is a review of the core prerequisite skills, competencies, and concepts needed in intermediate algebra. Topics include: a review of computational skills, order of operations, factoring, operations on rational and radical expressions, exponential and logarithmic expressions and equations, linear and quadratic functions. Intended for majors in science, technology, engineering, and mathematics who are concurrently enrolled in MATH 064 or MATH 063.
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NC 202 Intro to Statistics Support**(N/A)***Class Hours: 36 Lecture**P/NP**Corequisite(s): MATH 025 (STAT C1000)*

Introduction to Statistics Support

NC 202 is a review of the core prerequisite skills, competencies, and concepts needed in statistics. Topics include concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. The course is for students who are concurrently enrolled in MATH 025.

NC 203 Precalculus Support**(N/A)***Class Hours: 36 Lecture**P/NP**Corequisite(s): MATH 015 or MATH 016*

Precalculus Support

NC 203 is a review of the core prerequisite skills, competencies, and concepts needed in precalculus. Topics include: a review of computational skills developed in intermediate algebra, factoring, operations on rational and radical expressions, absolute value equations and inequalities, exponential and logarithmic expressions and equations, conic sections, functions including composition and inverses, an in-depth focus on quadratic functions, and a review of topics from geometry. This course is intended for students who are concurrently enrolled in MATH 015 or MATH 016.

NC 204 Contemporary Mathematics Support**(N/A)***Class Hours: 18 Lecture**P/NP**Corequisite(s): MATH 045*

Contemporary Mathematics Support

NC 204 is a support class that will cover math topics such as algebraic operations, functions, data analysis, modeling, and problem-solving. We will analyze practice problems and work together to strengthen our skills and understanding of these topics with the purpose of succeeding in MATH 045, Contemporary Mathematics. This course is only for students who are enrolled in MATH 045 at the same time.

NC 205 Structure & Concepts in Math I**(N/A)***Class Hours: 18 Lecture**P/NP**Corequisite(s): MATH 010A*

Structure & Concepts in Math I Support

NC 205 is designed as a corequisite support course for students who are concurrently enrolled in the parent course, MATH 010A, and are placed into this course using multiple measures. The parent course is designed for prospective elementary school teachers. This course focuses on the necessary supporting skills for the study of the development of quantitative reasoning and the real number systems and subsystems.

NC 206 Quantitative Analysis Support**(N/A)***Class Hours: 18 Lecture**P/NP**Corequisite(s): MATH 039*

Quantitative Analysis Support

NC 206 is a support class to review basic skills and concepts that you might have forgotten. Topics include concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics, which are necessary skills you will need to be successful in MATH 039. This course is only for students who are enrolled in MATH 039 at the same time.

NC 210 ESL for College and Work**(N/A)***Class Hours: 54 Lecture**P/NP***ESL for College and Work**

NC 210 is designed to help the English Language Learner acquire general language skills needed to function effectively in work and academic environments. Emphasis is placed on practice of listening, speaking, reading, writing, and computer skills. This noncredit low-intermediate level ESL course develops oral and written communication skills in English within the context of work environments. Students study and practice vocabulary for communicating with employers, customers, and industry professionals. Students learn about American customer service culture and explore opportunities in their career industry.

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

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

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 & Car**(N/A)***Class Hours: 54 Lecture**P/NP***Advanced Communication Skills for Life And Career**

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 144 OSHA 10 Safety**(N/A)***Class Hours: 8 Lecture | 2 Laboratory**P/NP***OSHA 10 Safety**

NC 144 provides students with the basic skills for understanding safety in the workplace. Topics covered include OSHA regulations, personal protective equipment, and common workplace hazards. Students will learn proper use of common tools and safety in workplace situations. Successful students will receive an official OSHA10 card, accepted by industry, as documentation of course completion.

NC 145 Precision Measuring**(N/A)***Class Hours: 20 Lecture**P/NP***Precision Measuring**

NC 145 provides students with knowledge and skills on how to select, inspect, use, and care for levels; use of feeler gauges, calipers, micrometers, height gauges, and surface plates. Measuring tools to monitor and evaluate equipment such as dial indicators, pyrometers, and thermal/vibration analysis will also be covered. Students will be able to apply these precise measuring skills to various manufacturing practices such as measuring tolerances in equipment or products.

NC 146 Industrial Valves**(N/A)***Class Hours: 15 Lecture**P/NP***Industrial Valves**

NC 146 will prepare you with the skills and knowledge of industrial valves necessary to advance your career as a skilled industrial maintenance mechanic. Faculty will provide a supportive and inclusive learning environment covering industrial valve identification, install and maintenance.

NC 147	Bearings	(N/A)
	<i>Class Hours: 35 Lecture</i>	<i>P/NP</i>

Bearings

NC 147 will prepare you with the skills and knowledge of industrial bearings necessary to advance your career as a skilled industrial maintenance mechanic. Faculty will provide a supportive and inclusive learning environment covering bearing identification, troubleshooting and replacement.

NC 148	Industrial Pumps and Drives	(N/A)
	<i>Class Hours: 30 Lecture</i>	<i>P/NP</i>

Industrial Pumps and Drives

NC 148 will prepare you with the skills and knowledge of industrial pumps and drives necessary to advance your career as a skilled industrial maintenance mechanic. Faculty will provide a supportive and inclusive learning environment covering industrial pump and drive uses, install, and maintenance.

NC 149	Industrial Machine Alignment	(N/A)
	<i>Class Hours: 60 Lecture</i>	<i>P/NP</i>

Industrial Machine Alignment

NC 149 will prepare you with the skills and knowledge of industrial machine alignment necessary to advance your career as a skilled industrial maintenance mechanic. Faculty will provide a supportive and inclusive learning environment covering baseplates and the alignment of motors and coupling systems.

NC 150	Gaskets and Seals	(N/A)
	<i>Class Hours: 30 Lecture</i>	<i>P/NP</i>

Gaskets and Seals

NC 150 will prepare you with the skills and knowledge of industrial gaskets and seals necessary to advance your career as a skilled industrial maintenance mechanic. Faculty will provide a supportive and inclusive learning environment covering industrial gaskets and seal identification, install and maintenance.

NC 151	State Laws and Federal Regulat	(N/A)
	<i>Class Hours: 54 Lecture</i>	<i>P/NP</i>

State Laws and Federal Regulations

NC 151 provides students with an introduction to the trucking industry, rules, and regulations to prepare students for the written test to obtain a CLP (Commercial Learners Permit) from the state of California. Students will also complete the FMCSA (Federal Motor Carrier Safety Administration) requirements for the theory portion of the ELDT (Entry Level Drivers Training). Individuals must be at least 18 years of age and have a valid driver's license in order to hold a CLP.

NC 152	Safe Operation Fundamentals	(N/A)
	<i>Class Hours: 54 Lecture</i>	<i>P/NP</i>

Safe Operation Fundamentals

NC 152 will prepare you with the skills and knowledge for a career in the Truck Driving industry. Faculty will provide a supportive and inclusive learning environment covering vehicle inspection and control portions for the Commercial Drivers License (CDL) in the state of California. Students will leave the class well-prepared for both federal and state commercial driving requirements.

NC 152A	Citizen/The Naturalization	(N/A)
	<i>Class Hours: 36 Lecture</i>	<i>P/NP</i>

Citizenship/The Naturalization

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/US Hist & Govern**(N/A)***Class Hours: 36 Lecture**P/NP*

Citizenship/U.S. History and Government

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 157 Fitness for Life**(N/A)***Class Hours: 54 Laboratory**P/NP*

Fitness for Life

NC 157 is a course in mild exercise designed essentially for middle and older adults who, for one reason or another, have not maintained a satisfactory level of physical activity.

NC 158 Operations of Commercial Vehic**(N/A)***Class Hours: 18 Lecture | 108 Laboratory**P/NP*

Operations of Commercial Vehicles

NC 158 provides practical and theoretical knowledge in the operation of two- and three-axle tractor trailer combinations on a driving range and highway. Student will drive commercial vehicles equipped with automatic transmissions and be introduced to shifting a 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. Students will also complete the FMCSA (Federal Motor Carrier Safety Administration) requirements for the behind-the-wheel public road portion of the ELDT (Entry Level Drivers Training).

NC 160 GED Preparation Program**(N/A)***Class Hours: 162 Laboratory**P/NP*

GED Preparation Program

NC 160 equips individuals with the skills and knowledge base necessary to pass the GED exam. Students review the five GED content areas (language arts-reading and writing, mathematics, social studies, and science) with particular emphasis on writing and math. Instructors will assess individual skills levels to help the student focus on tutoring weakness into strengths. Additionally, the GED Preparation program will provide students with Adult Basic Education (ABE) lessons which include the Test of Adult Basic Education (TABE) Test, offering opportunities to further build skills in the areas of reading, writing, and math. Along with (ABE) training, the GED Preparation program will also provide Basic Skills/English as a Second language (ESL) instruction. Students will use computer based tutorials to practice and improve their English language skills.

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

High School Equivalency (HSE) Preparation

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.

NC 169 Commercial Driver Testing**(N/A)***Class Hours: 27 Laboratory**P/NP*

Commercial Driver Testing

NC 169 offers students the opportunity to test for a commercial drivers license with the California DMV (Department of Motor Vehicles). Students will utilize classroom and laboratory experiences to license as a commercial driver.

NC 180 Survey of Unmanned Aerial Syst**(N/A)***Class Hours: 18 Lecture**P/NP*

Survey of Unmanned Aerial Systems

NC 180 is an introduction to unmanned aerial systems (UAS) for students that want to learn more about regulations for UAS, applications of UAS; and flight procedures. These topics are designed to provide familiarity with terminology, value of UAS in business, and use of UAS for imagery and data collection. This course is a precursor to a series of credit courses on liability issues, flight techniques, and passing the Part 107 certification test.

NC 181 Unmanned Aerial Systems Flight**(N/A)***Class Hours: 18 Lecture**P/NP**Prerequisite(s): NC-180 or Current Part 107 Certification License*

Unmanned Aerial Systems Flight Procedures

NC 181 will provide a supportive and inclusive learning environment for students to develop the ability to plan and direct autonomous flight operations. The course provides detailed instruction and practice in flight operations of rotor and fixed-wing types of Unmanned Aerial Systems (UAS). Flight operations include: development of mission plan for autonomous flight; preflight checks and documentations; launch, flight, and return home techniques; and post-flight operations. Students are recommended to have a Part 107 certification license for class. UAS are provided, though students have the option to use their own UAS if it meets requirements.

NC 182 Understanding Flow and Pressure**(N/A)***Class Hours: 18 Lecture**P/NP*

Understanding Flow and Pressure

NC 182 provides a supportive, collaborative environment in which students will gain fundamental understanding of flow, pressure, and friction loss in irrigation systems. Students will develop the ability to operate, schedule, and manage advanced irrigation systems and explore the application of these concepts in diverse settings and contexts, developing the skills needed for success in a variety of agricultural, landscaping, and water management roles.

NC 183 Use of Fld Moble Computng Dev**(N/A)***Class Hours: 16 Laboratory**P/NP*

Use of Field Mobile Computing Devices

NC 183 provides computer literacy for the technician working with field tablets, handheld computers, or mobile devices, in irrigation, pest management, agriculture production, animal science, precision agriculture, or industrial technical areas. The course focuses on advanced settings and functions usually found within mobile devices including GPS, inertial measurement units, temperature or other data collection sensors, and the apps that utilize them.

NC 184 Maintnce of Ag Irrigation Filtr**(N/A)***Class Hours: 18 Laboratory**P/NP*

Maintenance of Agriculture Irrigation Filter Systems

NC 184 provides students with the basic skills to determine the proper maintenance tasks for common agriculture irrigation filtering systems, complete those tasks, and evaluate the proper operation of a filtering system. Fundamental knowledge of filter system types, parts, functions, and purposes will also be covered.

NC 185A Installing Field Sensors**(N/A)***Class Hours: 8 Lecture | 8 Laboratory**P/NP*

Installing Field Sensors Filter Systems

NC 185A provides students with the knowledge and skills to install in-field sensors including: volumetric water content and soil tension moisture sensors, and pressure transducers for irrigation lines. Best practices for installation will be discussed and demonstrated in the field. In addition the value of other sensors such as sap flow, surface renewal, and flowmeters will be discussed.

NC 185B Installing Automtc Irrig Snrs**(N/A)***Class Hours: 4 Lecture | 10 Laboratory**P/NP*

Installing Automated Irrigation Systems Filter Systems

NC 185B provides an understanding of how automated irrigation operates and the knowledge and skills to install an automated irrigation system in the field. Two different automated systems will be used as examples to identify components, select and install correct configuration based on a systems design, check for correct connections, and complete mounting in the field.

NC 185C Scheduling Automated Irrigatio**(N/A)***Class Hours: 9 Lecture | 9 Laboratory**P/NP*

Scheduling Automated Irrigation Systems Filter Systems

NC 185C provides understanding of how automated irrigation operates and the detailed use of software to complete an automated irrigation schedule. Two different irrigation software will be used to identify communication nodes, monitor pressures and flow, and turn on pumps and valves for a specified time period.

NC 186 Maintenance of Irrigation Pump**(N/A)***Class Hours: 18 Lecture**P/NP*

Maintenance of Irrigation Pumping and Delivery

NC 186 provides students with supportive, hands-on training to develop the ability to perform basic maintenance tasks for pumping systems and irrigation lines including pump lubrication, evaluation of bearings, troubleshooting, and care and flushing of lines. We will work together to help you to gain an understanding of irrigation system parts and functions, in short, to keep water flowing and plants growing!

NC 187 Impacts of the Sustainable Gro**(N/A)***Class Hours: 27 Lecture**P/NP*

Impacts of the Sustainable Groundwater Management Act (sgma)

NC 187 fosters the growth of future agricultural leaders, regardless of background. We provide a supportive environment for students to develop their knowledge regarding the Sustainable Groundwater Management Act (SGMA). The course will enable students to develop an understanding of how this act will impact water use and agriculture in the Central Valley. We will review the key requirements of SGMA, explore the roles of Groundwater Sustainability Agencies (GSAs), and review current Groundwater Sustainability Plans that are or will be implemented in groundwater basins in the Central Valley.

NC 188 Applications of Uas in Agricul**(N/A)***Class Hours: 18 Lecture**P/NP**Prerequisite(s): NC-181*

Applications of Uas in Agriculture

NC 188 offers a dynamic, hands-on experience in utilizing Unmanned Aerial Systems (UAS) equipped with various payloads. UAS technology empowers individuals from diverse backgrounds to contribute to a growing field with valuable applications. In this supportive, hands-on learning environment, you will explore capturing high-resolution imagery for agriculture and other industries and examine the expanding role of UAS in tasks such as crop spraying, beneficial insect delivery, and security. The course delves into processing captured data, setting up sprayer payloads, and exploring various control options for these versatile systems.

NC 191 Agriculture Technical Literacy**(N/A)***Class Hours: 36 Lecture**P/NP*

Agriculture Technical Literacy

In NC 191, you will develop the skills to identify and utilize digital technology in agriculture, write effective agricultural technical reports, and interpret industry documents. Upon completion you'll be equipped to leverage technology for enhanced farm management and data analysis, contributing to a more diverse and equitable agricultural industry.

NC 192 Agricultural Systems**(N/A)***Class Hours: 54 Lecture**P/NP***Agricultural Systems**

In NC 192, you will dive into understanding the core principles of the agricultural industry, exploring plant science, crop production systems, and animal systems. Through this course, will acquire essential knowledge and skills to navigate these systems effectively, fostering equity and understanding within the agricultural community.

NC 193 Agricultural Safety**(N/A)***Class Hours: 36 Lecture**P/NP***Agricultural Safety**

In NC 193, you will learn how to maintain a safe and compliant work environment in agriculture by following Occupational Safety & Health Administration (OSHA) standards, safely operating hand power tools, and implementing best practices for manufacturing, food safety, and sanitation. Through these skills, you'll be empowered to prioritize workplace safety and uphold the dignity of all individuals involved in agricultural operations.

NC 194 Equip Operatns, Config. & Trou**(N/A)***Class Hours: 54 Lecture**P/NP***Equipment Operation, Configuration, & Troubleshooting**

In NC 194, you will gain hands-on experience operating electronic and mechanical equipment used in agriculture, setting up equipment safely for tasks, and troubleshooting issues across electrical, mechanical, and software systems. Whether you're a novice or an experienced technician, this course ensures you will develop a robust understanding to succeed in industrial, agricultural, and mechanical fields. Through inclusive practices, you will thrive in mastering the intricacies of various equipment, fostering an environment where all students can excel.

NC 195 Workplace Effectiveness**(N/A)***Class Hours: 36 Lecture**P/NP***Workplace Effectiveness**

In NC 195, you will learn effective communication, time management, workplace policies, and conflict resolution strategies essential for success in the agriculture industry. Through this course, you will learn to navigate organizational structures, foster collaborative relationships, and communicate inclusively within the workplace using industry methods. With a focus on inclusive communication and equitable participation, you'll be prepared to thrive in diverse work environments, ensuring equal opportunities for all to contribute effectively.

Nutrition (NUT)

NUT 001 Basic Nutrition**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU***Basic Nutrition**

NUT 001 is an introductory course emphasizing the basic nutrient needs of the human body and the body's use of these nutrients. Concepts of nutrition and diet planning are applied to specific life situations.

Performing Arts (PA)

PA 003 Film Appreciation**(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU***Film Appreciation**

PA 003 looks at the cinema as a 20th century art form. Students will view historically and artistically significant films in class and learn how to critique them. Students will also develop an understanding of both the artistic and technical aspects of film as well as the business and politics of the film industry.

PA 022 Theater Workshop (4)*Class Hours: 36 Lecture | 108 Laboratory**Transfers to: UC/CSU***Theater Workshop**

PA 022 is the presentation of a full length production before a public audience. Students will learn work readiness skills integrated as a part of the intense disciplined rehearsal process of a dramatic production. Students will specialize in either acting, technical theatre, design, costumes or public relations while working with the director and designers to create a production/performance team. This course is only offered during the summer.

PA 023 Chicano Theater (3)*Class Hours: 36 Lecture | 54 Laboratory**Transfers to: UC/CSU***Chicano Theater**

PA 023 is a form of theatre which expresses the culture and identity of the Chicano through development of self expression. This course will give the student a basic introduction to the working ideology and methodology of El Teatro Campesino. PA 23 will introduce the student to some acting techniques and Chicano/Latino dramatic works. The course will also illustrate the present reality of the Chicano way of life throughout the stage production.

PA 025 Theater Dance (1)*Class Hours: 9 Lecture | 27 Laboratory**Transfers to: UC/CSU***Theater Dance**

PA 025 provides instruction in basic modern, jazz and folkloric dance techniques for the performing arts.

Pharmacology (PHARM)

PHARM 003 Pharmacology 3 (3)*Class Hours: 54 Lecture**Prerequisite(s): HS 005 and BIO 032**Advisory(s): ENG 001A (ENGL C1000), BIO 035, and MATH 063**Transfers to: UC/CSU**C-ID: HIT 107X***Introduction to Pharmacology**

PHARM 003 is a course tailored to nursing students who are just beginning their journey into the world of pharmacology or who seek to refresh or remediate pharmacology. Throughout this course, we'll dive into the essential terminology and concepts of pharmacology, explore different drug categories and their uses, understand how drugs work (mechanism of action), learn about various dosage forms and calculations, explore different routes and principles of drug administration, and become familiar with common generic and trade names. Additionally, we'll cover important nursing considerations, including how to effectively teach patients about their medications.

Philosophy (PHIL)

PHIL 001 Introduction to Philosophy (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A (ENGL C1000) or ESL 001

Transfers to: UC/CSU

C-ID: PHIL 100

Introduction to Philosophy

PHIL 001 introduces philosophical ideas and methods concerning knowledge, reality, and values. Expected topics will include the sources and limits of knowledge, and the nature of reality. Other topics that may be examined from a philosophical perspective include the nature of the self, truth, ethics, religion, science, language, beauty and art, political theory, or mind. The philosophies of both Western and non-Western cultures will also be contrasted and compared.

PHIL 002 Introduction to Logic (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A (ENGL C1000) or ESL 001

Transfers to: UC/CSU

C-ID: PHIL 110

Introduction to Logic

PHIL 002 introduces principles and methods of formal logic for analyzing and evaluating arguments. Topics include argument components, argument structure, types of reasoning, rules of inference, categorical syllogisms, and natural deductions using propositional and predicate logic.

PHIL 003 Introduction to Ethics (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A (ENGL C1000) or ESL 001

Transfers to: UC/CSU

C-ID: PHIL 120

Introduction to Ethics

PHIL 003 introduces students to the field of ethics through discussion of morality and values, classic readings in moral philosophy, and application of representative ethical theories to current moral problems. Where applicable, the contributions of non-Western philosophers will be examined.

Physical Education (PE)

PE 003 Badminton (1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

Badminton

PE 003 is designed to provide students an opportunity to learn basic skills and knowledge of badminton.

PE 006 Body Conditioning (1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

Body Conditioning

PE 006 will expose the students to stretching, jump rope, lifting, running and various other skills while working toward optimum physical conditioning.

Transfers to: UC/CSU

PE 011 is designed to provide instruction and practice of the fundamentals of golf, including the swing, use of the club, strategy and etiquette.

Transfers to: UC/CSU

PE 016 involves planning, instruction and participation in a progressive program of jogging and power walking as applied to enjoyment, health and fitness.

Transfers to: UC/CSU

PE 019 is designed for assessment of students' fitness and ability levels. With this assessment, an individualized exercise program is designed to meet the students' fitness needs. The fitness components to be emphasized will include an increase in muscular strength and endurance, flexibility and cardiovascular endurance.

Transfers to: UC/CSU

PE 020 is designed to provide instruction and practice in the fundamentals of tennis, including strokes, rules, and court etiquette. The course also includes instruction in basic strokes and skills necessary for the student to participate in recreational tennis.

Transfers to: UC/CSU

PE 021A is the first in a series of four courses designed to emphasize proper techniques of stretching and warm-up prior to exercise, proper use of all lifting and cardiovascular endurance stations, and skills that develop overall fitness. This course is an introduction into body composition, metabolism, and heart rate in a lab setting.

Transfers to: UC/CSU

PE 021B is the second in a series of four courses designed to emphasize a beginning level in proper techniques of stretching and warm-up prior to exercise, proper use of all lifting and cardiovascular endurance stations, and skills that develop overall fitness. Students will develop an intermediate level of expertise in improving weight lifting and aerobic baselines with emphasis on individual programs that target specific outcomes.

PE 021C Intermediate Fitness Lab (1)*Class Hours: 54 Laboratory**Prerequisite(s): PE 021B**Transfers to: UC/CSU*

Intermediate Fitness Lab

PE 021C is the third in a series of four courses designed to improve overall fitness by emphasizing proper techniques of stretching and warm-up prior to exercise, and proper use of all lifting and cardiovascular endurance stations.

PE 021D Advanced Fitness Lab (1)*Class Hours: 54 Laboratory**Prerequisite(s): PE 021C**Transfers to: UC/CSU*

Advanced Fitness Lab

PE 021D is the fourth in a series of four courses designed to improve overall fitness is by emphasizing proper techniques of stretching and warm-up prior to exercise, and proper use of all lifting and cardiovascular endurance stations.

PE 022A Beginning Volleyball (1)*Class Hours: 54 Laboratory**Transfers to: UC/CSU*

Beginning Volleyball

PE 022A is the first in a series of four courses designed to provide instruction and practice in the basic skills of volleyball play. The course will develop introductory skills and knowledge of the game, with specific emphasis on the game of volleyball as a component of lifelong wellness and as a component of physical fitness.

PE 022B Intermediate Volleyball (1)*Class Hours: 54 Laboratory**Prerequisite(s): PE 022A**Transfers to: UC/CSU*

Intermediate Volleyball

PE 022B is the second in a series of four courses (A/B/C/D) designed to provide instruction and practice in the intermediate skills necessary for participation in competitive volleyball. The course will develop intermediate skills and knowledge of the game, with specific emphasis on the game of volleyball as a component of lifelong wellness and as a component of physical fitness.

PE 022C Advanced Volleyball (1)*Class Hours: 54 Laboratory**Prerequisite(s): PE 022B**Transfers to: UC/CSU*

Advanced Volleyball

PE 022C is the third in a series of four courses (A/B/C/D) designed to provide instruction and practice in the advanced skills necessary for participation in competitive volleyball. The course will develop advanced skills and knowledge of the game, with specific emphasis on the game of volleyball as a component of lifelong wellness and as a component of physical fitness.

PE 022D Master Volleyball (1)*Class Hours: 54 Laboratory**Prerequisite(s): PE 022C**Transfers to: UC/CSU***Master Volleyball**

PE 022D is the fourth in a series of four courses (A/B/C/D) designed to provide instruction and practice in the advanced skills necessary for participation in competitive volleyball. The course will develop advanced skills and knowledge of the game, with specific emphasis on the individual skills as they relate to defensive and offensive systems. The course will also correlate the game of volleyball as a component of lifelong wellness and as a component of physical fitness.

PE 023 Weight Training (1)*Class Hours: 54 Laboratory**Transfers to: UC/CSU***Weight Training**

PE 023 is designed for physical conditioning, with emphasis on power, strength, endurance and cardiovascular fitness.

PE 024 Circuit Training (0.5 - 1)*Class Hours: 54 Laboratory**Transfers to: UC/CSU***Circuit Training**

PE 024 is an activity class involving a series of weight training stations. The weight trainer performs an exercise and at one station and rapidly moves to the next station with little or no rest.

PE 025A Introductory Soccer (1)*Class Hours: 9 Lecture | 27 Laboratory**Transfers to: UC/CSU***Introductory Soccer**

PE 025A is an introductory course designed to present basic skills in the sport of soccer, including dribbling, passing, trapping, shooting and goal keeping. This course will also give the students knowledge and practice in the offensive and defensive strategies involved in the game of soccer.

PE 032A Beginning Basketball (1)*Class Hours: 54 Laboratory**Transfers to: UC/CSU***Beginning Basketball**

PE 032A is designed to provide instruction and practice in the basic skills necessary for participation in competitive basketball. The course will develop introductory skills and knowledge of the rules, with specific emphasis on the individual skills of passing, dribbling, and shooting.

Physical Science (PHYSICI)

PHYSICI 002 Chemistry & Physics for Educators (4)*Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(s): Eligibility for Transfer-level Mathematics**Transfers to: UC/CSU**C-ID: CHEM/PHYS 140***Chemistry and Physics for Educators**

PHYSICI 002 is designed to prepare students to teach chemistry and physics at the K - 12 grade levels with emphasis on meeting California Public School Standards. This course is part of the natural science series for students planning to transfer to a four-year liberal studies program. Topics include physical and chemical properties of matter, motion, energy, electricity, light, atomic structure and bonding, and chemical reactions.

Physics (PHYSICS)

PHYSICS 002A **Mechanics and Thermodynamics** (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): MATH 063 or MATH 064

Transfers to: UC/CSU

C-ID: PHYS 105/100S

Mechanics and Thermodynamics

PHYSICS 002A is the algebra-based study of vectors, particle kinematics and dynamics, work energy, simple harmonic motion rotational kinematics and dynamics, the kinetic theory of gases, the first and second laws of thermodynamics and gravitation.

PHYSICS 002B **Electricity, Magnetism, Optics** (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): PHYSICS 002A

Transfers to: UC/CSU

C-ID: PHYS 110 & 100S

Electricity, Magnetism, Optics and Modern Physics

PHYSICS 002B is the algebra-based study of electricity, magnetism, electromagnetism, electric circuits, wave phenomena, geometrical and physical optics, special relativity and a survey of atomic, nuclear and particle physics.

PHYSICS 004A **Classical Mechanics** (4)

Class Hours: 54 Lecture | 54 Laboratory

Corequisite(s): MATH 001A

Transfers to: UC/CSU

C-ID: PHYS 205/200S

Classical Mechanics

PHYSICS 004A is the 1st of a 3-semester sequence of calculus-based physics studying Newton's laws of motion, Lagrangian mechanics, Hamiltonian mechanics, kinematics, statics, dynamics, chaos theory, acoustics, fluid dynamics and continuum mechanics. Laboratory work is an integral part of the course.

PHYSICS 004B **Electricity, Magnetism, Waves** (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): PHYSICS 004A

Co-Requisite(s): MATH 001B

Transfers to: UC/CSU

C-ID: PHYS 210

Electricity, Magnetism, and Waves

PHYSICS 004B is the 2nd of a 3-semester sequence of calculus-based physics studying electrostatics, the electric field, Coulomb's law, Gauss's law, electric potential, capacitance, dielectrics, DC and AC circuit analysis, network theorems, the Lorentz force law, Ampere's law, the Biot-Savart law, Faraday's law, inductance, Maxwell Equations, magnetism, magnetic properties of matter, propagation of waves in elastic media, standing waves, interference, and electromagnetic waves. Laboratory work is an integral part of the course.

PHYSICS 004C Thermodynamics, Optics, Modern Physics (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): PHYSICS 004B and MATH-001B

Advisory(s): MATH 002A

Transfers to: UC/CSU

C-ID: PHYS 215/200S

Thermodynamics, Optics, and Modern Physics

PHYSICS 004C is the 3rd of a 3-semester sequence of calculus-based physics studying optics, laws of thermodynamics, heat transfer, heat engines, entropy, theory of special relativity, photoelectric effect, Compton effect, Bohr Model for the hydrogen atom, elementary quantum, kinetic theory of gases, failures of classic physics and a survey of modern physics. Laboratory work is an integral part of the course.

Political Science (POLS)

POLS C1000 American Government and Politics (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: POLS 110

American Government and Politics

This course is an introduction to government and politics in the United States and California. Students examine the constitutions, structure, and operation of governing institutions, civil liberties and civil rights, political behaviors, political issues, and public policy using political science theory and methodology.

Political Science (POLSCI)

POLSCI 002 Comparative Government (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: POLS 130

Comparative Government

POLSCI 002 comparative analysis of other countries' political systems. We will study other countries' history, political institutions, processes and policies with an emphasis on contemporary problems.

POLSCI 004 Intro to International Relations (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: POLS 140

P/NP

Introduction to International Relations

POLSCI 004 examines the nature of relations between countries on an international level. Consideration of all sides of a conflict and how it is resolved will help make sense of a chaotic international system. By looking at historical events in the context of international relations theory, students will understand the nature of war, peace, international security, and economic interdependence and discern the various interpretations of what is going on around the world.

POLSCI 005 Intro. to Political Theory**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: UC/CSU**C-ID: POLS 120*

Introduction to Political Theory

POLSCI 005 examines the nature of political thought, addressing questions such as: where does power originate? Who makes the best ruler? Should society prioritize the individual or the community? By pondering these questions, akin to Socrates, savvy students will develop as individuals and contributing members of society. This course delves into human nature and strategies for societal improvement. Close analysis of different readings offers insights into the darker aspects of human nature and the dynamics of power. We will gain insights into the American political system and its sustainability. Additionally, we will examine contemporary cultural theories and their integration into American society.

POLSCI 010 Modern Politics**(3)***Class Hours: 54 Lecture**P/NP**Transfers to: UC/CSU**C-ID: POLS 150*

Modern Politics

POLSCI 010 will delve into the nature of power and authority within political thought, investigate the different government structures worldwide and why they are instituted, and explore the international system and how countries interact with each other. Through conversations and analysis of political thought, we will get a sample of the different subfields political science offers, allowing the opportunity to pick a focus of study, making this a great course to take if you are considering majoring in political science.

POLSCI 020 Legal and Judicial Reasoning**(3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU*

Legal and Judicial Reasoning

POLSCI 020 entails an in depth analysis of the American legal System. From constitutional law to statutory and common law implementation. Students will examine court rulings and see how those rulings have evolved and changed civil liberties and society.

Psychiatric Technician (PT)

PT 101 Psychiatric Tech Training Prog**(0.5)***Class Hours: 9 Lecture**P/NP**Prerequisite(s): HS-005, BIO-032, PSYC-C1000, and PHARM-003*

Psychiatric Technician Training Program Orientation

PT 101 aims to equip students for success in the Coalinga College Psychiatric Technician Program. Throughout the course, students will be provided with a comprehensive program handbook, orientation to policies and procedures, access to calendars and syllabi, guidance on travel expectations, and the necessary materials to thrive in their studies.

PT 050 Anatomy for Nurses**(2)***Class Hours: 36 Lecture**Advisory(s): HS 005 and ENG 051A*

Anatomy for Nurses

PT 050 will present an overview of basic human anatomy and physiology necessary to provide psychiatric technician students with the foundational understanding of the structure and function of healthy human body systems and changes associated with aging.

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- PT 051 Fundamentals of Nursing (5)**
Class Hours: 90 Lecture
Prerequisite(s): VNPT 090, HS 080, or PT 050
Prerequisite(s): HS 088 or HS 005
Corequisite(s): PT 051L
- Fundamentals of Nursing
- PT 051 will present basic nursing care skills and the role and responsibilities of the professional nurse/psychiatric technician. Students will learn entry-level patient care skills including the application of critical thinking and the nursing process.
- PT 051L Fundamentals of Nursing Clinic (3)**
Class Hours: 162 Laboratory
Corequisite(s): PT 051
- Fundamentals of Nursing Clinical
- PT 051L will present basic nursing care skills and the role and responsibilities of the professional nurse/psychiatric technician. Students will attend course in both skills laboratory and community patient care environments including skilled nursing facilities. Students will be required to travel to community sites.
- PT 052 Medical Surgical Nursing (5)**
Class Hours: 90 Lecture
Corequisite(s): PT 052L
- Medical Surgical Nursing
- PT 052 is a foundational course covering intermediate and advanced nursing care skills for professional nurses and psychiatric technicians. Using a body-systems approach, students will study medical/surgical nursing skills with a strong theoretical foundation for patient care. PT 052 is paired with PT 052L, ensuring a comprehensive learning experience that merges theoretical knowledge with practical clinical training.
- PT 052L Medical Surgical Nurs Clinical (3)**
Class Hours: 162 Laboratory
Corequisite(s): PT 052
- Medical Surgical Nursing Clinical
- PT 052L will allow the application of intermediate and advanced nursing care skills in developing the role and responsibilities of the professional nurse/psychiatric technician. Students will learn medical/surgical nursing skills using a body-systems approach, and provide hands-on patient care at community based clinical sites.
- PT 060 Lifespan for Nurses (2)**
Class Hours: 36 Lecture
Advisory(s): ENG 051A
- Lifespan for Nurses
- PT 060 will present an overview of basic human development from gestation though adult necessary to provide psychiatric technician students with the foundational understanding of growth and development during the human life span.
- PT 061 Intro to Developmental Disab. (5)**
Class Hours: 90 Lecture
Prerequisite(s): PT 052 and PT 060
Corequisite(s): PT 061L
- Introduction to Developmental Disabilities
- PT 061 examines the care of individuals with intellectual and developmental disabilities within the framework of residential care and treatment facilities. Students will learn strategies and concepts that build upon basic nursing skills in the management and care of this special population.
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PT 061L Intro to Developmental Disabil (3)*Class Hours: 162 Laboratory**Corequisite(s): PT 061*

Introduction to Developmental Disabilities Clinical

PT 061L will provide students the opportunity to apply foundational principals in the care of clients with developmental and intellectual disabilities. Students will be required to travel to community sites and follow policy and procedures according to industry standards.

PT 062 Developmental Disabilities (5)*Class Hours: 90 Lecture**Prerequisite(s): PT 061**Corequisite(s): PT 062L*

Developmental Disabilities

PT 062 examines the care of individuals with intellectual and developmental disabilities originating from genetic and gestational factors, providing students with a deep understanding of these conditions. Students will also learn about the history and application of applied behavior analysis and behavior modification strategies. This course has a corequisite, PT 062L, where students will apply their learning in a clinical setting, ensuring a comprehensive and practical learning experience.

PT 062L Developmntl Disablties Clinical (3)*Class Hours: 162 Laboratory**Corequisite(s): PT 062*

Developmental Disabilities Clinical

PT 062L will allow the application of nursing care skills in developing the role and responsibilities of the professional nurse/psychiatric technician. Students will develop nursing skills and behavior modification practices within the context of developmental and intellectual disabilities and provide hands-on patient care at community based clinical sites.

PT 070 Psychology for Nurses (2)*Class Hours: 36 Lecture*

Psychology for Nurses

PT 070 will present an overview of human psychology and the many approaches psychologists take in understanding human behavior.

PT 071 Intro to Mental Disorders (5)*Class Hours: 90 Lecture**Prerequisite(s): PT 062 and PT 070**Corequisite(s): PT 071L*

Introduction to Mental Disorders

PT 071 will introduce psychological and mental health concepts as they relate to the professional Psychiatric Technician. The causes, prevention, and treatment of mental, emotional and behavioral disorders will be examined by providing practice in interpersonal skills, self-understanding, problem solving communication, and the use of rehabilitation methods in providing patient care.

PT 071L Intro to Mental Disorders Clin (3)*Class Hours: 162 Laboratory**Corequisite(s): PT 071*

Introduction to Mental Disorders Clinical

PT 071L will allow the introductory applications of hands-on patient care in the area of psychological and mental health to individuals at the forensic clinical sites related to the Psychiatric Technician profession. The causes, prevention and treatment of mental, emotional and behavioral disorders will be examined by providing practice in interpersonal skills, self-understanding, problem solving, communication, and the use of rehabilitation methods in providing patient care. Students will be expected to travel to clinical sites.

PT 072 Mental Disorders (5)*Class Hours: 90 Lecture**Prerequisite(s): PT 071**Corequisite(s): PT 072L***Mental Disorders**

PT 072 will be an in-depth study of psychological and mental health concepts as they relate to the professional psychiatric technician. You will examine the causes, prevention, and treatment of mental, emotional, and behavioral disorders. The course will provide practice in interpersonal skills, self-understanding, problem-solving, communication, and the use of rehabilitation methods in providing patient care. PT 072L is a corequisite to this course in which you will apply these skills in clinical settings.

PT 072L Mental Disorders Clinical (3)*Class Hours: 162 Laboratory**Corequisite(s): PT 072***Mental Disorders Clinical**

PT 072L will allow the application of intermediate and advanced hands-on patient care of the psychological and mental health of individuals at the forensic clinical sites within the role and scope of psychiatric technician. The causes, prevention, and treatment of mental, emotional and behavioral disorders will be examined by providing practice in interpersonal skills, self-understanding, problem solving, communication, and the use of rehabilitation methods in providing patient care. Students will be expected to travel to distance clinical sites.

PT 081 Pharmacology 1 (1)*Class Hours: 18 Lecture**Advisory(s): HS 005***Pharmacology 1**

PT 081 is an overview of basic pharmacological principles, terminology, legal, and safety aspects of medication administration as it pertains to the role of the psychiatric technician, vocational nurse, or registered nurse. This course will help you to understand drug classifications, effects, and client teaching principles with an emphasis on anti-infective, cardiovascular, respiratory, renal, and diabetes medications.

PT 082 Pharmacology 2 (1)*Class Hours: 18 Lecture**Prerequisite(s): PT 081***Pharmacology 2**

PT 082 is a continuation of basic pharmacological principals, terminology, legal and safety aspects of medication administration as it pertains to the role of the psychiatric technician. This course will help students understand drug classifications, effects, and client teaching principals with emphasis on: central nervous system drugs, musculoskeletal drugs, gastrointestinal drugs, endocrine drugs, non-steroidal anti-inflammatory drugs, anti-anemics, reproductive medications, immunizing agents and antiseptic/disinfectants.

PT 083 Pharmacology 3 (1)*Class Hours: 18 Lecture**Prerequisite(s): PT 082***Pharmacology 3**

PT 083 is a continuation of basic pharmacological principals, terminology, and legal and safety aspects of medication administration as it pertains to the role of psychiatric technician. This course will help students understand drug classifications, effects, and client teaching principals with emphasis on: autonomic system medications, antipsychotics, antidepressants, opioids, sedative-hypnotics, anesthetics, anxiolytics and the principles of drug dependence and addiction.

Psychology (PSYC)

PSYC C1000 Introduction to Psychology (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: PSY 110

Introduction to Psychology

This course is an introduction to psychology, which is the study of the mind and behavior. Students focus on theories and concepts of biological, cognitive, developmental, environmental, social, and cultural influences; their applications; and their research foundations.

Psychology (PSYCH)

PSYCH 002 Abnormal Psychology (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: PSY 120

Abnormal Psychology

PSYCH 002 introduces the scientific study of psychopathology and atypical behaviors, broadly defined. Students investigate abnormal behavior from a variety of perspectives including biological, psychological, and sociocultural approaches. An integrative survey of theory and research in abnormal behavior, and intervention and prevention strategies for psychological disorders are also introduced.

PSYCH 003 Developmental Psychology (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: PSY 180

Developmental Psychology

PSYCH 003 provides an overview, from a psychological perspective, of human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined, as well as attention to developmental problems.

PSYCH 004 Personal Psychology (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: PSY 115

Personal Psychology

PSYCH 004 is designed with an applied focus for students interested in how psychology is used in everyday life and is related to other social sciences. The course surveys different psychological perspectives and theoretical foundations and how these are applied across a person's life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized.

PSYCH 005 Biological Psychology (3)*Class Hours: 54 Lecture**Prerequisite(s): PSYCH 001 (PSYC C1000)**Transfers to: UC/CSU**C-ID: PSY 150***Biological Psychology**

PSYCH 005 introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms, and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders will be addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental research.

PSYCH 006 Research Methods in Psychology (3)*Class Hours: 54 Lecture**Prerequisite(s): PSYCH 001 (PSYC C1000)**Prerequisite(s): MATH 025 (STAT C1000)**Transfers to: UC/CSU**C-ID: PSY 200***Research Methods in Psychology**

PSYCH 006 surveys various psychological research methods with an emphasis on research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation, and reporting of research data. Research design and methodology will be examined through a review of research in a variety of the sub-disciplines of psychology.

PSYCH 029 Introductio to Sport & Exercis (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU***Introduction to Sport & Exercise Psychology**

PSYCH 029 is the study and application of psychological 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.

Social Work (SW)**SW 020 Intro to Social Work & Human S (3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: SWHS-110***Introduction to Social Work and Human Services**

SW 020 is an introductory overview of social welfare and the societal institutions in the U.S. that structure the provision of social services. The course presents a historical perspective on the development of U.S. social work and human services. Special attention is given to current service delivery systems, their policies and procedures, and the tasks of culturally responsive social workers and human service workers within those settings.

Sociology (SOC)

SOC 001 Introduction to Sociology (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: SOCI 110

Introduction to Sociology

SOC 001 is an introduction to the sociological concepts and theoretical perspectives of sociology and their application to the fundamental problems of social life. The course includes an overview of sociological explanations, methods, and findings in social structure, group dynamics, socialization, social stratification culture, social change, and global dynamics.

SOC 002 Critical Thinking/Social Prob (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: SOCI 115

Critical Thinking and Social Problems

SOC 002 explores major social problems experienced by society, with an exploration of the role of power in defining social problems, causes and consequences, theoretical perspectives, proposed solutions, and methods of interventions. The course focuses on the application of critical thinking skills to strengthen critical analysis and heighten social awareness.

SOC 003 Marriage and Family Relations (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: SOCI 130

Marriage and Family Relations

SOC 003 explores diversity in family dynamics including historical and recent changes. Topics focus on socio-cultural and economic forces shaping the family, love, mate selection, sexuality, communication patterns, parenthood, and dissolution. Students will learn how paired relationships work in contemporary mass society, why they succeed, and why they sometimes fail.

SOC 005 Cultural Sociology (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: SOCI 150

Cultural Sociology

SOC 005 includes the sociological analysis of race, ethnicity, and racism. Examines the cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, as well as historical and contemporary patterns of interaction between various racial and ethnic groups.

Soil Science (SLSCI)

SLSCI 021 **Introduction to Soil Science** **(4)**

Class Hours: 54 Lecture | 54 Laboratory

P/NP

Transfers to: UC/CSU

C-ID: AG-PS 128 128L

Introduction to Soil Science

SLSCI 021 is the study of soil formation, classification, and characteristics. Additional study topics include soil use and management, chemistry, fertility, salinity, erosion, organic matter, and microbiology. Laboratory topics include soil type, classification, chemistry, fertility, and hydraulic and physical properties.

Spanish (SPAN)

SPAN 001 **Elementary Spanish I** **(4)**

Class Hours: 72 Lecture

P/NP

Transfers to: UC/CSU

C-ID: SPAN 100

Elementary Spanish I

SPAN 001 is an introductory course that teaches beginning language acquisition in a cultural context through listening, speaking, reading, and writing. The students will interact with authentic language in a cultural context.

SPAN 002 **Elementary Spanish II** **(4)**

Class Hours: 72 Lecture

Prerequisite(s): SPAN 001 or One year of high school Spanish

Transfers to: UC/CSU

C-ID: SPAN 110

Elementary Spanish II

SPAN 002 continues to teach Spanish language acquisition in a cultural context through listening, speaking, reading, and writing at the second semester level. The students will continue to interact with authentic Spanish language in cultural context.

SPAN 003 **Intermediate Spanish I** **(4)**

Class Hours: 72 Lecture

Prerequisite(s): SPAN-002 or Two years high school Spanish

Transfers to: UC/CSU

C-ID: SPAN 200

Intermediate Spanish I

SPAN 003 teaches culture and facilitates Spanish language acquisition through listening, speaking, reading and writing. Students will continue to interact with authentic Spanish language in context. Content is expanded beyond "survival" needs of the immediate environment in order to express personal meaning and to apply different strategies and techniques to go beyond casual conversation and express opinions, make suggestions on familiar topics, as well as some abstract issues and plans. Students demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. Accuracy becomes quite high for high frequency structures and vocabulary but more complex discourse is still developing and requires a somewhat sympathetic listener or reader. Students will demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. This course will be taught in Spanish.

SPAN 004 Intermediate Spanish II**(4)***Class Hours: 72 Lecture**Prerequisite(s): SPAN 003 or Three years high school Spanish**Transfers to: UC/CSU**C-ID: SPAN 210***Intermediate Spanish II**

SPAN 004 continues to expand upon culture and facilitate Spanish language acquisition through listening, speaking, reading and writing. Students will interact with more sophisticated authentic Spanish language in context. Content continues to expand in order to express more complex ideas in order to express personal meaning and to apply different strategies and techniques to go beyond casual conversation and express opinions, make suggestions on familiar topics, as well as some abstract issues and plans. Students demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. Accuracy becomes quite high for high frequency structures and vocabulary but more complex discourse is still developing and requires a somewhat sympathetic listener or reader. Students will continue to demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. This course will be taught in Spanish.

Statistics (STAT)**STAT C1000 Introduction to Statistics****(4)***Class Hours: 72 Lecture**Prerequisite(s): Placement as determined by the college's multiple measures assessment process or completion of a course taught at or above the level of intermediate algebra.**Transfers to: UC/CSU**C-ID: MATH 110***Introduction to Statistics**

This course is an introduction to statistical thinking and processes, including methods and concepts for discovery and decision-making using data. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-squared, and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Students apply methods and processes to applications using data from a broad range of disciplines.

Student Development (STUDEV)**STUDEV 001 College Success****(3)***Class Hours: 54 Lecture**Transfers to: UC/CSU**P/NP***College Success**

STUDEV 001 will take you on a transformative journey to equip you with the essential skills and strategies to thrive in college and beyond. Join us on this journey toward personal and academic success as we empower you to become independent learners, make informed decisions, and take advantage of available resources. The course will ultimately increase your chances of academic and personal success.

STUDEV 002 Career Planning**(1)***Class Hours: 18 Lecture**Transfers to: UC/CSU**P/NP***Career Planning**

STUDEV 002 will empower you with the knowledge, skills, and mindset necessary for successful career/ life planning in a diverse and dynamic world. Join us as we take you beyond traditional career planning to address the unique challenges and opportunities presented by diverse backgrounds, experiences, and perspectives. You will have the opportunity to discover personal strengths, values, and interests through self-assessment tools and understand how your identity relates to your career/life planning and educational goals.

STUDEV 020 Ensuring Transfer Success**(1)***Class Hours: 18 Lecture**P/NP**Advisory(s): Eligibility for freshman composition (ENG 001A (ENGL C1000) or ESL 001)**Transfers to: UC/CSU***Ensuring Transfer Success**

STUDEV 020 will help you navigate the process of transferring from community college to university. Through active participation in research and planning, you will consider key criteria for selecting your next college/university and major, identify the proper preparatory courses for general education and your intended major, and learn of opportunities for guaranteed admission to public universities within California (and beyond). By the end of this course, you will be well-prepared for a successful transfer to a four-year college or university.

Vocational Nursing and Psych T (VNPT)**VNPT 090 Math for Medical Professions****(1)***Class Hours: 18 Lecture***Math for Medical Professions**

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.

Welding Technology (WT)**WT 015X Occupational Work Experience****(1 - 8)***Class Hours: Work Experience**Transfers to: CSU***Occupational Work Experience**

WT 015X develops skills and knowledge by integrating classroom study with planned, supervised work experience. It is based on the principle that well-educated individuals develop most effectively through an educational plan that incorporates work experience. Through these structured experiences, the students enrich their college studies, which enhances their total development. Occupational Work Experience is supervised employment which is intended to assist students in acquiring desirable work habits, attitudes, and career awareness in the field of the student's major. Students may earn up to 8 units per semester for a maximum of 16 total units. Credits are awarded for paid or voluntary work. For every 75 hours of paid work completed within the semester, 1 unit of credit is awarded. For every 60 hours of volunteer work completed within the semester, 1 unit of credit is awarded. Occupational Work Experience credits are counted as electives toward an Associate's Degree at West Hills College Coalinga and are transferable to four year universities (for specific transfer eligibility, please contact a counselor or an advisor).

WT 070 Introduction to Certified Weld**(2.5)***Class Hours: 36 Lecture | 27 Laboratory***Introduction to Certified Welding**

WT 070 is the introductory course for the certified welding program designed as an introduction for the entry level welder. Topics include practical and theoretical instruction in welding safety, oxyfuel cutting, plasma arc cutting, air carbon cutting and gouging, base metal preparation and weld quality.

WT 071 Beginning SMAW**(3)***Class Hours: 18 Lecture | 108 Laboratory***Beginning SMAW**

WT 071 is an introduction to shielded metal arc welding (SMAW). Topics include practical and theoretical training in SMAW equipment and setup; shielded metal arc electrodes; SMAW beads and fillet welds and joint fit-up and alignment.

WT 072 Advanced SMAW**(3)***Class Hours: 18 Lecture | 108 Laboratory**Advisory(s): WT 071*

Advanced SMAW

WT 072 is the study and application of advanced shielded metal arc welding (SMAW). This course consists of practical and theoretical training intended to build upon basic SMAW skills including groove welds and backing. Topics also include V-groove and open root V-groove welds for the following positions: flat, horizontal, vertical and overhead.

WT 073 Intro to Metallurgy & Weld Sym**(1.5)***Class Hours: 27 Lecture**Advisory(s): WT 072*

Introduction to Metallurgy and Weld Symbols

WT 073 is an introduction to metallurgy and common weld symbols used for certified welders. Topics include theoretical instruction in reading welding symbols and welding detail drawings, physical characteristics and mechanical properties and preheating and post-heating of metals.

WT 074 GMAW and FCAW:Plate**(3)***Class Hours: 18 Lecture | 108 Laboratory**Advisory(s): WT 073*

GMAW and FCAW: Plate

WT 074 consists of practical and theoretical training in gas metal arc welding (GMAW) and flux cored arc welding (FCAW). Topics include equipment and filler metals as well as plate in the 1G (flat), 2G (horizontal), 3G (vertical) and 4G (overhead) positions.

WT 075 SMAW Pipe Welding**(2)***Class Hours: 108 Laboratory**Advisory(s): WT 074*

SMAW Pipe Welding

WT 075 consists of practical training on the setup of SMAW equipment for open-root V-groove welds. Students will learn procedures for making open-root V-groove welds with SMAW equipment on carbon-steel pipe in the 1G-rotated, 2G, 5G and 6G positions.

WT 076 Welding Cert Preparati**(0.5)***Class Hours: 27 Laboratory*

Welding Certification Preparation

WT 076 prepares the student to take a welding certification test in the various processes, procedures and standards established by the American Welding Society (AWS).