

Course Descriptions

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

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Administration of Justice (AOJ)

AOJ 001 Introduction to Criminal Justice (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A

Transfers to: UC/CSU

C-ID: AJ 110

AOJ 001 introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principals and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies.

AOJ 003 Introduction to Corrections (3)

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: AJ 200

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)

Class Hours: 54 Lecture

Transfers to: CSU

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 Correctional Interviewing and Counseling (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

AOJ 006 is an overview of the techniques in interviewing and counseling available to practitioners in Corrections. Students will learn the use of appropriate techniques and theories in confidence building, which be used by the correctional employee 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

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 & Proceed of Criminal Justice (3)

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: AJ 122

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 Communications (3)

Class Hours: 54 Lecture

Transfers to: CSU

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

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 & Commu Relations in Crim Justice (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: AJ 160

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

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: CSU

C-ID: AJ 124

AOJ 022 examines categories of evidence and legal rules governing its admission and exclusion in the criminal process.

AOJ 024 Criminal Investigation (3)

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: AJ 140

AOJ 24 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: CSU

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 course in Sociology Crime and Delinquency or Introduction to Criminology.

AOJ 032 Juvenile Delinquency (3)

Class Hours: 54 Lecture

Advisory(s): AOJ 032

Transfers to: CSU

C-ID: AJ 220

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.

Agriculture (AG)

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

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: AG-AB 112

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

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

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 Agriculture** (3)

Class Hours: 54 Lecture

Transfers to: CSU

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: CSU

AGBUS 024 is the study of the principles of agricultural 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.

AET 024 Drip & Micro Irrigation Design & MGMT. (3)

Class Hours: 36 Lecture | 54 Laboratory

Advisory(s): AET 021, AET 022, and AET 023

Transfers to: CSU

AET 024 covers drip/micro irrigation hardware and management; emphasizing agricultural drip/micro irrigation with some landscape application. Filtration, emitters, chemical injection, agronomic constraints, and scheduling will also be discussed. The entire design procedure determining crop water requirements, filtration, pumping requirements, high efficiency design procedures, number of irrigation blocks, pressure regulation and uniformity will be covered. This course aligns with the Agricultural Drip/Micro Step 4 specialty exam for the Irrigation Association's Certified Irrigation Designer.

American Sign Language (ASL)

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

Class Hours: 72 Lecture

Transfers to: UC/CSU

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: Level 2 (4)

Class Hours: 72 Lecture

Prerequisite(s): ASL 001

Transfers to: UC/CSU

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.(AA/AS, CSU, UC)

Animal Science (ASCI)

ASCI 012 Introduction to Animal Science (3)

Class Hours: 54 Lecture

Transfers to: CSU

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

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.

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- ART 003 Three Dimensional Design Fundamentals (3)**
Class Hours: 27 Lecture | 81 Laboratory
Transfers to: CSU
C-ID: ARTS 101
- 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
Transfers to: UC/CSU
C-ID: ARTS 110
- ART 005A is the study of the drawing discipline with emphasis upon perceptually based drawing, observational skills, technical abilities, and creative responses to materials and subject matter.
- ART 005B Intermediate Drawing (3)**
Class Hours: 27 Lecture | 81 Laboratory
Prerequisite(s): ART 005A
Advisory(s): ENG 051A
Transfers to: UC/CSU
C-ID: ARTS 205
- Art 005B offers additional lecture and studio time to further explore the drawing principles. Recommended for art majors.
- ART 008 Color Theory (3)**
Class Hours: 27 Lecture | 81 Laboratory
Advisory(s): ENG 051A
Transfers to: CSU
C-ID: ARTS 270
- 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
- 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
- Art 013B offers additional lecture and studio time to further explore hand building, glazing, and wheel throwing techniques.
- ART 013C Advanced Ceramics (3)**
Class Hours: 27 Lecture | 81 Laboratory
Prerequisite(s): ART 013B
Transfers to: UC/CSU
- Art 013C will offer further lecture and studio time to explore concepts and theories of ceramics.
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ART 015A **Beginning Painting** (3)
Class Hours: 27 Lecture | 81 Laboratory P/NP
Advisory(s): ENG 051A
Transfers to: UC/CSU
C-ID: ARTS 210

ART 015A will offer lecture and studio time to explore the heritage and fundamentals of painting.

ART 015B **Intermediate Painting** (3)
Class Hours: 27 Lecture | 81 Laboratory
Prerequisite(s): ART 015A
Transfers to: UC/CSU

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

ART 015C **Advanced Painting** (3)
Class Hours: 27 Lecture | 81 Laboratory P/NP
Prerequisite(s): ART 015B
Transfers to: UC/CSU

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

ART 016A **Survey of Western Art: Pre-History** (3)
Class Hours: 54 Lecture
Advisory(s): ENG 051A
Transfers to: UC/CSU

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: Renaissance** (3)
Class Hours: 54 Lecture
Advisory(s): ENG 051A
Transfers to: UC/CSU
C-ID: ARTH 120

Art 016B is a survey of the Arts from the Proto-Renaissance in Italy through contemporary styles. The course includes a concentrated study of individual artists and their work.

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

ART 042 is an introductory course in the study of basic principles of art, as well as how they play an important role in art history. The student will learn these principles through lecture, slide presentation, video presentation, and projects assigned inside and outside the classroom. No art background is necessary.

Athletics (ATHL)

ATHL 002 **Fundamentals of Softball** (0.5 - 3)
Class Hours: 175 Laboratory
Advisory(s): Medical approval from a licensed physician (Recommended, Previous or concurrent).
Transfers to: UC/CSU

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

Advisory(s): Medical approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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 Fundamentals of Men's Basketball (0.5 - 3)

Class Hours: 175 Laboratory

Advisory(s): Medical approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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

Advisory(s): Medical approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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: 108 Laboratory

Transfers to: UC/CSU

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

Advisory(s): Medical approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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

Advisory(s): Medical approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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

Advisory(s): Medical Approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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

Advisory(s): Medical approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

ATHL 023 provides the opportunity for students to competitive sport, competing with other colleges.

ATHL 024 Intercollegiate Men's Basketball (1.5)

Class Hours: 87.5 Laboratory

Advisory(s): Medical approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

ATHL 024 is designed to provide competition in basketball at the community college level.

ATHL 026 Intercollegiate Baseball (3)

Class Hours: 175 Laboratory

Advisory(s): Medical Approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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 Volleyball (3)

Class Hours: 175 Laboratory

Advisory(s); Medical approval from a licensed physician (Recommended, Previous or concurrent).:

Transfers to: UC/CSU

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

Advisory(s): Medical approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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

Advisory(s): Medical Approval from a licensed physician (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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.

Biology (BIO)

BIO 010 **Fundamentals of Biology** (3)

Class Hours: 36 Lecture | 54 Laboratory

Advisory(s): ENG 051A

Transfers to: UC/CSU

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 051A

Transfers to: UC/CSU

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): MATH 063

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: BIOL 110B

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 other health related majors.

BIO 035 **Human Physiology** (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): MATH 063, or MATH 064, ENG 051A

Advisory(s): BIO 010 or BIO 015, and CHEM 002A

Transfers to: UC/CSU

C-ID: BIOL 120B

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

Advisory(s): ENG 051A

Transfers to: UC/CSU

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 they cause.

Business (BUS)

BUS 001A **Beginning Principles of Accounting** (4)
Class Hours: 72 Lecture P/NP
Advisory(s): ENG 051A, and Math 061
Transfers to: UC/CSU
C-ID: ACCT 110

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 Accounting** (4)
Class Hours: 72 Lecture P/NP
Prerequisite(s): BUS 001A
Transfers to: UC/CSU
C-ID: ACCT 120

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 P/NP
Transfers to: CSU

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 P/NP
Prerequisite(s): BUS 002 or ability to key 35 nwpm
Transfers to: CSU

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: 18 Lecture | 27 Laboratory P/NP
Advisory(s): Ability to type 30 NWPM (Recommended, Previous or concurrent).
Transfers to: CSU

BUS 013A teaches basic features of Word for Windows for fundamental use in an office or for personal use. The course is designed to equip students with the skills to prepare personal/business correspondence and research papers and reports. This course, along with Word for Windows II, is required for the Office Technology major.

BUS 013B Word for Windows II (1.5)
P/NP

Class Hours: 18 Lecture | 27 Laboratory

Prerequisite(s): BUS 013A

Advisory(s): Ability to key 35 NWPM (Recommended, Previous or concurrent).

Transfers to: CSU

BUS 013B teaches advanced features of Word for Windows. The course is designed for office personnel using Microsoft Word on the job. This course, along with Word for Windows I, is required for the Office Technology major.

BUS 015X Occupational Work Experience (1 - 8)

Class Hours: Work Experience

Transfers to: CSU

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)
P/NP

Class Hours: 72 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: BUS 125

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

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

BUS 024 will provide a working knowledge of mathematical operations and applications used in the field of business. The course will focus on application such as payroll management, checking accounts, inventory valuation, financial statements, and interest calculations.

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

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

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 (Recommended, Previous or concurrent).**Transfers to: CSU*

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*

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*

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**Take BUS-1A or BUS-55 (Required, Previous or concurrent).:*

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

Transfers to: UC/CSU

C-ID: CHEM 120S

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

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 1A, 1B sequence is required of all students majoring in chemistry, chemical engineering, engineering sciences, biology, microbiology, and all applied sciences at the University of California, i.e., medicine, pharmacy, veterinary science, nursing, home economics, etc. These courses are acceptable for credit at the University of California and California State University.

CHEM 002A Introductory Chemistry (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): MATH 063

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: CHEM 101

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 Chemistry 2A, 2B 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.

Child Development (CD)

CD 002 Teaching in a Diverse Society (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

C-ID: ECE 230

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. 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

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

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

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 Development (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A (Recommended, Previous or concurrent).

Transfers to: UC/CSU

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. Advisory(s): ENG 051A

CD 010 Child, Family and Society (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

C-ID: CDEV 110

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

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 Field Wo Early Childhood Practicum-Field Exp (3)

Class Hours: 18 Lecture | 108 Laboratory

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

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

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

Transfers to: CSU

C-ID: ECE 210

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 Administration & Superv. of Child. Progr (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

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. Pgrm Practicum (3)

Class Hours: 36 Lecture | 54 Laboratory

Advisory(s): ENG 051A

Transfers to: CSU

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 14A. Students will be given the opportunity to gain administrative experiences in an appropriate community-based children's program.

CD 015 Lit. & Lang Arts for Young Child. (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

CD 015 is the study of age-appropriate literature for young children with an emphasis placed on 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 identify information as it pertains to children's literature.

CD 015X Occupational Work Experience (1 - 8)

Class Hours: Work Experience

Transfers to: CSU

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 (Recommended, Previous or concurrent).

Transfers to: CSU

C-ID: ECE 130

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 Young Chil (1)

Class Hours: 18 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

CD 017A is designed for teachers and parents of young 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 Recognition & Prevention (1)

Class Hours: 18 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

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

CD 025 School-Age Curriculum (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

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

CD 026A Foundation of School-Age Child Care (1)

Class Hours: 18 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

CD 26A 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

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 relationship, indoor and outdoor environments, daily activities, safety and health issues, and administration.

CD 026C School-Age Sports and Activities (1)

Class Hours: 18 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

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 001 Elements of Speech (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: COMM 110

COM 001 provides instruction in the fundamental processes of oral communication, including traditional and internet research methods. This course is designed to improve the student's ability to function in any speaking situation. Emphasis is on the basic concepts of speaking as a transfer of understood messages, particularly as a communication between a single speaker and an audience. Students are involved in the critical thinking process of preparing and delivering extemporaneous speeches and in the development of active listening skills.

COM 002 Oral Interpretation of Literature (3)

Class Hours: 54 Lecture

take COM-1:

Transfers to: UC/CSU

C-ID: COMM 170

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**Transfers to: UC/CSU**C-ID: COMM 120*

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 and Presentation (3)*Class Hours: 54 Lecture**Prerequisite(s): ENG 051A**Transfers to: UC/CSU**C-ID: COMM 140*

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 to gather and analyze information.

COM 005 Interpersonal Communication (3)*Class Hours: 54 Lecture**Prerequisite(s): ENG 051A**Transfers to: CSU*

COM 005 is designed to provide understanding, critical thinking, and practical skills in basic communication settings; one to one, one to many, and speaker to audience. Students will engage in interpersonal exercises to use communication skills such as listening, paraphrasing, describing feelings, decision-making, perception checking, and verbal and non-verbal communication.

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

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 002B Internet Programming CSS (3)*Class Hours: 54 Lecture**Transfers to: UC/CSU*

CIS 002B is an introductory course using Cascading Style Sheets (CSS). CSS are an addition to Hyper Text Markup Language (HTML). CSS allows web page designers to expand their ability to control a web page. CSS allows for the nesting of key page elements to allow page designers to achieve a consistent look and feel throughout a web site. This course builds upon the knowledge and experience students have gained from taking CIS 002 Internet Programming HTML/CSS. Upon successful completion of this course, students will have clear understanding and knowledge of Web-standards foundations for coding pages that include intermediate to advanced CSS options.

CIS 002C Internet Programming Scripting Languages (3)*Class Hours: 54 Lecture**Transfers to: UC/CSU*

CIS 002C is an introductory course in the scripting languages that are used for the creation of web pages. HTML/CSS documents alone create web pages that are static, but with scripting languages, web pages can be dynamic and interactive. This course teaches students how to incorporate various scripting languages in HTML/CSS documents. Students will learn the basic syntax for scripting, as well as how to use objects and event handlers to interact with users. Additional topics may include how to respond dynamically to user actions and cross-frame communication. This course builds upon the knowledge and experience students have gained from taking CIS 002 Internet Programming HTML/CSS. Upon successful completion of this course, students will have clear understanding and knowledge of Web-standards foundations for coding pages that include intermediate to advanced scripting options.

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

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: 36 Lecture | 54 Laboratory**Transfers to: UC/CSU**C-ID: BUS 140*

CIS 007 is an examination of information systems and their role in business. The course focuses on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. The course includes application of these concepts and methods through hands-on projects developing computer-based solutions to business problems.

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

CIS 008 provides an overview of the Windows operating system on microcomputers including interface, using programs, working with permanent and removable storage media and files, customizing the desktop, creating shortcuts, and changing the way Windows looks and sounds. This should be the first class for students in the CIS series who are not proficient in how to use a computer.

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

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

CIS 019B (ACCESS) will teach the student to use a database program on a microcomputer. Students will learn database creation, report generation, updating, editing, and form structure and use.

CIS 020 Digital Image Production-Photoshop ACA Internet Graphics - Photoshop (3)
Class Hours: 54 Lecture P/NP
Transfers to: CSU

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

CIS 021 Desktop Publishing (3)
Class Hours: 36 Lecture | 54 Laboratory
Advisory(s): BUS 013A, and BUS 013B
Transfers to: CSU

CIS 021 teaches the student common sense design techniques used in the production of reports, presentation materials, newsletters, forms, manuals, catalogs, advertising materials, books, and other typical business publications. Knowledge of word processing techniques and the use of a mouse is suggested.

CIS 022 Digital Graphic Prod - Illustrator ACA (3)
Class Hours: 54 Lecture P/NP
Transfers to: UC/CSU

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

CIS 022A Digital Motion Graphics (3)
Class Hours: 54 Lecture
Transfers to: CSU

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

CIS 023 Digital Video Production (3)
Class Hours: 54 Lecture
Transfers to: CSU

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

CIS 024A Game Design Essentials (3)

Class Hours: 54 Lecture

Transfers to: CSU

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

CIS 024B Game Art Essentials (3)

Class Hours: 54 Lecture

Transfers to: CSU

CIS 024B introduces the theory and practice of using separate industry using software packages, such as Photoshop, Mudbox, Maya and Unity, to create a sample prototype game project within the Unity Game Engine. Assets will be created by the students using Adobe Photoshop, Autodesk Mudbox and Autodesk Maya. These assets will consist of 2D and 3D created assets, and will contain basic animation. Assets will then be integrated into the Unity Game Engine for use in a students prototype project to serve as a Game Design portfolio piece.

CIS 025 Digital Audio Production (3)

Class Hours: 54 Lecture

Transfers to: CSU

P/NP

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

CIS 034 Introduction to Spreadsheets (3)

Class Hours: 54 Lecture

Advisory(s): Math 101 and ENG 101B

Transfers to: CSU

P/NP

CIS 034 is an introduction to microcomputer spreadsheets using Microsoft Excel, Primary emphasis will be on the use of the command structure and operation. Topics covered will include spreadsheets design and format, graphs, and database functions.

CIS 035 Advanced Spreadsheets (3)

Class Hours: 54 Lecture

Prerequisite(s): CIS 003, or CIS 34A/B

Transfers to: CSU

P/NP

CIS 035 is an advanced spreadsheet course using Microsoft Excel. Primary emphasis will be on the use of the program's advanced features, such as file management, multiple worksheets, data tables and scenario management, and application development with macros using Visual Basic. Students should have a firm understanding of Microsoft Excel prior to taking this course.

Crop Science (CRPSCI)

CRPSCI 001 Introduction to Plant Science (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: UC/CSU

C-ID: AG-PS 106L

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

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 Introduction to Precision Agriculture (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

CRPSCI 006 provides students with an introduction to precision agriculture. Topics include Global Positioning System (GPS), yield monitoring, site-specific soil sampling, Geographic Information Systems (GIS), remote sensing and variable rate technology. Students will gain hands-on experience using industry-grade GIS software and GPS hardware.

CRPSCI 007 Advanced Precision Agriculture (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

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 Applications of Geospatial Technology (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

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

CRPSCI 017 Control and Sensor Systems in Ag (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

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

CRPSCI 018 Precision Ag Software (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

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: CSU

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: CSU

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

CRPSCI 023 Row Crop Production (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

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

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 Amendments (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: UC/CSU

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: CSU*

CRPSCI 044 is the study of the insects and mites of economic importance to agriculture including morphology, taxonomy, identification, life cycles, hosts, habitat relationships, and control methods. Collection and labeling of specimens will be required. Laboratory required.

CRPSCI 045 Ca Pest Control Laws & Regulations (2)*Class Hours: 36 Lecture**Transfers to: CSU*

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*

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**Transfers to: CSU*

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 Federal Regulations (3)***Class Hours: 54 Lecture*

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

DT 052 Safe Operation Fundamentals (2)*Class Hours: 108 Laboratory*

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

DT 053 Fork Lift Operations (1)*Class Hours: 54 Laboratory*

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

DT 055 Trip Planning and Budgeting (3)*Class Hours: 54 Lecture*

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

DT 057 Job Prep Skills (1)*Class Hours: 18 Lecture*

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

DT 058 Operations of Commercial Vehicles I (3)*Class Hours: 18 Lecture | 108 Laboratory*

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

DT 059 Operations of Commercial Vehicles II (3)*Class Hours: 162 Laboratory**Prerequisite(s): DT 058*

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

Earth Science (ESCI)

ESCI 002 Introduction to Earth Science (4)*Class Hours: 54 Lecture | 54 Laboratory**Transfers to: CSU*

ESCI 002 is a general earth science course that provides a broad understanding of the physical processes that have created and regulate space and Earth's four spheres, the hydrosphere, biosphere, atmosphere, and geosphere. The course integrates the physical sciences to provide an interdisciplinary, spatial and temporal perspective of the connections and interactions between these spheres. The course is designed to prepare students to teach Earth and Space Sciences in the K-12 classroom.

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*

ECON 001A 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.

ENG 001B Literature/ Critical Thinking & Writing (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A

Transfers to: UC/CSU

C-ID: ENGL 120/100

ENG 001B is designed to develop reading, critical thinking, and writing skills beyond the level achieved in English 001A. It will develop critical thinking skills through the interpretation and analysis of literature.

ENG 002 Introduction to Literature (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A

Transfers to: UC/CSU

C-ID: ENGL 120/100

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 003 Critical Thinking and Writing (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A

Transfers to: UC/CSU

C-ID: ENGL 105/115

ENG 003 is designed to develop critical thinking in reading and writing. The skills developed include logical reasoning, analysis, and argumentative writing. Students will write a minimum of 6,000 words during the semester.

ENG 025 Creative Writing (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

ENG 025 provides theory and practice in the writing of fiction, poetry, and creative nonfiction. Students will gain experience in all three genres while focusing on one specific genre for their semester project. Much emphasis is placed on critiquing of peer and professional manuscripts.

ENG 050 Research Tools (0.5)

Class Hours: 9 Lecture

P/NP

ENG 050 introduces to a variety of ways to do research projects, including using the library and Internet. Students will learn how to integrate and cite sources in their own writing. This course is intended to be taken in conjunction with a course requiring a research or term paper.

ENG 051A Introduction to Communication Skills (3)

Class Hours: 54 Lecture

Corequisite(s): ENG 001A (Recommended, Previous or concurrent).

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 As a Second Language (ESL)

ESL 110 ESL Bridge (1)

Class Hours: 54 Laboratory

ESL 110 is designed to help English Language Learners succeed in ENG 100. In this class, students will examine the readings and assignments of ENG 100 and learn strategies for reading and writing critically.

ESL 200 Integrated Skills (4)

Class Hours: 72 Lecture

Advisory(s): TOEFL IBT score of 37 or above and/or IELTS 4.0/4.5

ESL 200 is designed to prepare the intermediate English Language Learner for successful placement into ENG 100. Content includes, but is not limited to, parts of speech, sentence structure, listening and reading comprehension, and vocabulary building. A

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

Class Hours: 54 Lecture

Transfers to: CSU

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

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

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

FSS 020 Agriculture Laws and Regulations (2)

Class Hours: 36 Lecture

Transfers to: CSU

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

FSS 025 Principles of Hazard Analysis & Critical (3)

Class Hours: 54 Lecture

Transfers to: CSU

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 & Produce Safety (3)*Class Hours: 54 Lecture**Transfers to: CSU*

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*

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*

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 001 Introductory Span for Non-Native Speake (4)*Class Hours: 72 Lecture**Advisory(s): Special placement with consent of instructor**Transfers to: CSU*

P/NP

FLSPN 001 introduces current Spanish. This first semester course stresses pronunciation, understanding, speaking, writing, and reading. Emphasis is placed on basic vocabulary and essentials for grammar, along with an introduction to Hispanic culture. (Spanish 001 is not suggested for the bilingual student). Spanish 001 and 011 cannot both be taken for credit.

FLSPN 002 Elementary Spanish for Non-Native Speake (4)*Class Hours: 72 Lecture**Prerequisite(s): FLSPN 001**Advisory(s): One year of High School Spanish, or consent of instructor (Recommended, Previous or concurrent).**Transfers to: CSU*

P/NP

FLSPN 002 continues an introduction to current Spanish giving the student the first steps to functioning effectively in the language and culture. This second semester course stresses pronunciation, understanding, speaking, writing, and reading. Emphasis is placed on basic vocabulary and essentials for grammar, along with an introduction to Hispanic culture. (Spanish 002 is for non-Spanish speaking student. It is not suggested for the bilingual student.) Spanish 002 and 012 cannot both be taken for credit. (Students may challenge the prerequisite(s) for this class in order to register for the course).

FLSPN 003 Inter. Spanish for Native & Non-Native S (4)*Class Hours: 72 Lecture**Prerequisite(s): FLSPN-2 or FLSPN-12**Advisory(s): Two years of High School Spanish (Recommended, Previous or concurrent).**Transfers to: CSU*

FLSPN 003 is an intensive review of Spanish grammar interspersed with cultural, historical and literary studies. Conversation practice is included as an integral part of grammar and vocabulary studies, as well as in discussion of culture. Compositions are required. Student may challenge the prerequisite(s) for this class in order to register for the course).

FLSPN 004 Adv Spanish for Native & Non-Native Spea (4)*Class Hours: 72 Lecture**P/NP**Prerequisite(s): FLSPN 003**Advisory(s): Three years of High School Spanish (Recommended, Previous or concurrent).**Transfers to: CSU*

FLSPN 004 is an intensive review and continued development of Spanish grammar interspersed with cultural, historical and literary studies. Conversational practice is included as an integral part of grammar and vocabulary studies, as well as in discussion of culture. Compositions are required. (Students may challenge the prerequisite(s) for this class in order to register for the course).

FLSPN 011 Intro Spanish Limitedly 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 (Recommended, Previous or concurrent).**Transfers to: CSU*

Spanish 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 Elementary Span/Limitedly Bilingual (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 (Recommended, Previous or concurrent).**Transfers to: UC/CSU*

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 for Personal/Prof Use (3)*Class Hours: 54 Lecture**P/NP**Advisory(s): ENG 051S*

FLSPN 051 presents the essentials of grammar with an emphasis on communication oral practice to develop skill in communication for personal or professional use. Practice is designed to focus on specific vocabulary needs according to profession or personal need. May be taken two times for credit.

FLSPN 052 **Elem Conv Span for Personal/Prof Use** **(3)**
Class Hours: 54 Lecture *P/NP*

Prerequisite(s): FLSPN 051

Advisory(s): It is also recommended that the students repeat FLSPN 051 if more than one semester has elapsed since FLSPN 51 was taken (Recommended, Previous or concurrent).

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. May be taken two times for credit.

FLSPN 054 **Advanced Conv Span Personal/Prof Use** **(3)**
Class Hours: 54 Lecture *P/NP*
Prerequisite(s): FLSPN 053

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

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
Transfers to: UC/CSU
C-ID: GEOG 115

GEOG 001 is an introductory course in Physical Geography, the focus of which is the spatial relationships and interrelations of matter, energy, and systems on or near the earth's surface. Class content will focus on geodesy, cartography, hydrology, geomorphology, meteorology, climatology, soil science, biogeography, and their integrated patterns of world distribution. Intensive use is made of maps and field trips.

GEOG 002 **World Regional Geography** **(3)**
Class Hours: 54 Lecture
Advisory(s): ENG 051A
Transfers to: UC/CSU
C-ID: GEOG 125

GEOG 002 is a survey of the physical, cultural, and economic features of the world's regions and nations. Special effort will be made to understand how spatial relationships and historical events have influenced regional development. The most revealing features and characteristics of regions will be identified, categorized and evaluated.

GEOG 003 Cultural Geography (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: GEOG 120*

GEOG 003 is an introductory course in the study of cultural geography. The course is a systematic study of the various facets of human cultures including folk and popular culture, demographics, language, race and ethnicity, political systems, religions, agriculture, rural settlement forms, industries and urbanization. Field research is an important aspect of the course. (This course is recommended as an elective for students planning to teach.)

GEOG 016 Regional Field Studies (1)*Class Hours: 3 Lecture | 45 Laboratory**Transfers to: CSU*

GEOG 016 provides the opportunity for students to conduct field studies of the geography of selected regions. Physical and cultural processes, characteristics and landscapes will be observed and analyzed. Specific content will vary by geographic region.

GEOG 018 Geography of California (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: GEOG 140*

GEOG 018 provides a general overview of the physical and cultural qualities and conditions that define California as a unique political subdivision of the United States. Topics such as landforms, climate, soils and natural vegetation, along with cultural history and demographics, income, employment and education, immigration and other cultural characteristics are examined as they relate to the entire state in general and to specific regions in particular.

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

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*

GEOL 001 is an introduction to the physical and chemical forces active on the earth, including a survey of minerals, rocks, volcanism, 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)
<i>Class Hours: 54 Lecture 54 Laboratory</i>		<i>P/NP</i>
<i>Advisory(s): GEOL 001 or PHYSICI 001</i>		
<i>Transfers to: UC/CSU</i>		
<i>C-ID: GEOL 111</i>		

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 Students W/Dis	(1)
<i>Class Hours: 54 Laboratory</i>		<i>P/NP</i>
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)
<i>Class Hours: 54 Laboratory</i>		<i>P/NP</i>
GS 102 is a course designed primarily for students with learning disabilities. This non-transferable, 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 & Writing	(1)
<i>Class Hours: 54 Laboratory</i>		<i>P/NP</i>
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 Disabled Students Program and Services may repeat this courser as many times as necessary to achieve course objectives.		
GS 104	Adapted Computer Literacy	(2)
<i>Class Hours: 108 Laboratory</i>		
GS 104 provides 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	(2)
<i>Class Hours: 108 Laboratory</i>		
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	(2)
<i>Class Hours: 108 Laboratory</i>		
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 Support	(1)
<i>Class Hours: 54 Laboratory</i>		
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 skills and strategies learned to their assignments from their academic and vocational classes.		

Health Education (HE)

HE 035 Personal Health and Hygiene (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

HE 035 is a contemporary course which will promote desirable health attitude and practices. Topics considered will include the following: mental health and emotional health, stress, nutrition, fitness, sexuality, communicable diseases, cancer, drugs and alcohol abuse, death and dying, and tobacco use.

Health Science (HS)

HS 005 Medical Terminology (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

HS 005 is designed to give students an understanding of terminology used in the medical field. Students will learn to build medical terms by using prefixes, suffixes, roots and stems. Emphasis will be placed on proper spelling, pronunciation and usage of common medical terms and abbreviations.

HS 015X Occupational Work Experience (1 - 8)

Class Hours: Work Experience

Transfers to: CSU

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 061 Nurse Assistant Training (6)

Class Hours: 63 Lecture | 135 Laboratory

Advisory(s): Students must be at least 17 year of age and pass a physical examination, and submit fingerprints for FBI and DOJ clearance (Recommended, Previous or concurrent).

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.

HS 080 Introduction to Medical Professional (2)

Class Hours: 36 Lecture

Advisory(s): ENG 051A

HS 080 will present prospective health care professionals with industry related expectations for skills and characteristics needed to be a functional member of the interdisciplinary health care team.

HS 088 Medical Terminology for Health Careers (2)

Class Hours: 36 Lecture

Advisory(s): ENG 051A

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 Heating, Ventilating, & Air Cond Level I (3)

Class Hours: 18 Lecture | 108 Laboratory

HVAC 060 is an introduction to the Heating, Ventilating and Air Conditioning industry. Topics include practical and theoretical training in trade mathematics, basic electricity, introduction to heating and cooling, and an introduction to air distribution systems.

HVAC 061 Heating, Ventilating, & Air Cond Lev II (4)

Class Hours: 18 Lecture | 162 Laboratory

HVAC 061 is an intermediate course in the Heating, Ventilating, and Air Conditioning program. Topics include practical and theoretical training in alternating current, compressors, refrigerants and oils, basic maintenance and duct systems.

HVAC 062 Heating, Ventilating, & Air Cond Lev III (4)

Class Hours: 18 Lecture | 162 Laboratory

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 Heating, Ventilating, & Air Cond Lev IV (4)

Class Hours: 18 Lecture | 162 Laboratory

HVAC 063 is an advanced course in the Heating, Ventilating, and Air Conditioning program. Topics include practical and theoretical training in water treatment, indoor air quality, energy conservation equipment, building management systems, system air balancing, system startup and shutdown, construction drawings and specifications, system design, commercial/industrial refrigeration systems, alternative and specialized heating and cooling systems, and fundamentals of crew leadership.

Heavy Equipment (HVYEQUI)

HVYEQUI 060A Level I Heavy Equipment Operations (5)

Class Hours: 54 Lecture | 108 Laboratory

Prerequisite(s): IMT 060

HVYEQUI 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.

HVYEQUI 060B Level II Heavy Equip Operations (5)

Class Hours: 54 Lecture | 108 Laboratory

Prerequisite(s): HVYEQUI 060A

HVYEQUI 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.

HVYEQUI 060C Level III Heavy Equipment Operations (5)

Class Hours: 54 Lecture | 108 Laboratory

Prerequisite(s); HVYEQUI 060B:

HVYEQUI 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

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 170

HIST 004A is a survey of the development of western culture and civilization to the Reformation.

HIST 004B Western Civilization From 1700 (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 180

HIST 004B is a survey of the development of western culture and civilization from absolutism to the present.

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

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 130

HIST 017A is a historical survey of the European colonization of North America and the United States through Reconstruction.

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

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 140

HIST 017B is a historical survey of the United States from the end of the Civil War to the present.

HIST 020 World History I (3)

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: HIST 150

HIST 020 is a survey of the development of world civilization to 1500.

HIST 032 Cultural History of the Chicano (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

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 United States History (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU*

Women's Roles in United States History 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.

Humanities (HUM)**HUM 001 Introduction to Western Culture (3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU*

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 Introduction to Comparative Religion (3)*Class Hours: 54 Lecture**Advisory(s): ENG 001A**Transfers to: UC/CSU*

HUM 022 is a historical and comparative survey of the development of religious ideas out of mankind's origins. Special emphasis is given to primitive and ancient beliefs, Hinduism, Buddhism, Judaism, Christianity and Islam.

Industrial Mechanics Tech (IMT)**IMT 060 Industrial Core (3)***Class Hours: 36 Lecture | 54 Laboratory*

IMT 060 provides students with the basic professional skills needed in the industrial, welding or agricultural industries. The skills covered include basic safety, construction mathematics, hand and power tools, construction drawings, rigging, materials handling and employability skills.

IMT 061 Industrial Maintenance Mechanic Level I (3)*Class Hours: 18 Lecture | 108 Laboratory*

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. Mechanic Level II (4)*Class Hours: 18 Lecture | 162 Laboratory*

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. Mechanic Level III (4)*Class Hours: 18 Lecture | 162 Laboratory*

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

IS 001 is a course which assists students in obtaining skills and knowledge necessary to reach their educational, career and life objectives. Topics to be covered include orientation to college, motivation, memory development, physiological wellbeing, study skills/techniques, career-life planning, and financial literacy, and skills for dealing with personal issues, interpersonal relationships in addition to other life challenges that students encounter throughout the various stages of their life.

IS 002 Career Planning (1)
Class Hours: 18 Lecture *P/NP*
Advisory(s): ENG 110B
Transfers to: UC/CSU

IS 002 examines the career development process and teaches students a quantifiable decision-making process that will help them identify and plan for their career/life planning and educational goals. The course focuses on self and career exploration, as well as identifying an educational pathway to achieve desired professional goals. Students will identify their interests, values, skills, and personality types as they relate to career/life planning and educational goals.

IS 020 Ensuring Transfer Success (1)
Class Hours: 18 Lecture
Transfers to: UC/CSU

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

IS 051 Portfolio Development (1)
Class Hours: 18 Lecture *P/NP*

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

Kinesiology (KINES)

KINES 001 Introduction to Kinesiology (3)
Class Hours: 54 Lecture
Advisory(s): HE 035
Transfers to: UC/CSU
C-ID: KIN 100

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 Psychology (3)
Class Hours: 54 Lecture
Transfers to: UC/CSU

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

KINES 046 Care & Prevention of Athletic Injuries (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: UC/CSU

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

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. Standard first aid, CPR, and AED certification(s) will be granted upon successful completion of requirements.

Linguistics (LING)

LING 011 Introduction to Linguistics (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: CSU

LING 011 examines the nature, structure, acquisition, and biology of human language; the nature of linguistic diversity; the relationship between linguistic structure; and literacy development. The course also highlights the areas of linguistics most relevant to future elementary and secondary teachers. It is recommended for Liberal Studies Blended majors or for students entering the Multiple Subject or Singular Subject Credential Program.

Math (MATH)

MATH 100 Prealgebra (3)

Class Hours: 54 Lecture

Prerequisite(s): MATH-BASE

MATH 100 is designed to prepare students for MATH 061 (Elementary Algebra). Topics include fractions, decimals, ratios and proportion, percentages, unit analysis and conversions, geometry, algebraic expressions and linear equations in one variable. This course requires a minimum placement score on the Math Placement Exam.

MATH 001A Introduction to Calculus (5)

Class Hours: 90 Lecture

Prerequisite(s): MATH 015

Transfers to: UC/CSU

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

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*

MATH 002A is concerned with three-dimensional vectors, lines and planes, vector-valued functions, partial derivatives, multiple integrals and calculus of vector fields. (Please Note: This course is offered infrequently.)

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

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 Mathematics I (3)*Class Hours: 54 Lecture**Prerequisite(s): MATH 063**Transfers to: UC/CSU**C-ID: C-ID MATH 120*

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. This class does not satisfy G.E. math requirements for non-Liberal Studies majors.

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

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 015 Precalculus (5)*Class Hours: 90 Lecture**Prerequisite(s): MATH 063 (Required, Previous or concurrent).**Transfers to: UC/CSU*

MATH 015 is an intensive course covering those topics traditionally found in the separate courses of trigonometry and college algebra. This course will include an in-depth analysis and application of linear, quadratic, polynomial, rational, exponential, logarithmic, trigonometric functions and their graphs, systems of equations, and analytic geometry.

MATH 016 Precalculus and Trigonometry (6)*Class Hours: 108 Lecture**Prerequisite(s); MATH 063 or MATH 064:**Transfers to: CSU*

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 025 Introduction to Statistics (4)

Class Hours: 72 Lecture

Prerequisite(s): MATH 063 or MATH 064 (Required, Previous or concurrent).

Transfers to: UC/CSU

C-ID: MATH 110

MATH 025 is an introduction to the use of predictive techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education.

MATH 045 Contemporary Math (3)

Class Hours: 54 Lecture

Prerequisite(s): MATH 063

Transfers to: UC/CSU

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

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

Prerequisite(s): MATH 101 or MATH 100

P/NP

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

P/NP

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 and Intermediate Algebra (5)

Class Hours: 90 Lecture

Prerequisite(s): MATH 101 or MATH 100 (Required, Previous or concurrent).

Advisory(s): Prior exposure to beginning or intermediate algebra topics. (Recommended, Previous or concurrent).

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)
	<i>Class Hours: 54 Lecture</i>	<i>P/NP</i>
	<i>Advisory(s): ENG 051A</i>	
	<i>Transfers to: UC/CSU</i>	
	<i>C-ID: MUS 100</i>	

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)
	<i>Class Hours: 90 Laboratory</i>	<i>P/NP</i>

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 Instruction	(N/A)
	<i>Class Hours: 18 Lecture</i>	<i>P/NP</i>

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.

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

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 Preparedness	(N/A)
	<i>Class Hours: 36 Lecture</i>	<i>P/NP</i>

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)
	<i>Class Hours: 36 Lecture</i>	<i>P/NP</i>

Corequisite(s): MATH 063 or MATH 064 (Required, Previous or concurrent).

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.

NC 202	Introduction to Statistics Support	(N/A)
	<i>Class Hours: 36 Lecture</i>	

Corequisite(s): MATH 025

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
- 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
- NC 204 is designed as a corequisite support course for students who are concurrently enrolled in the parent course, MATH045, 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 mathematics of voting and gaming systems, apportionment, circuits, algorithms, networks, and scheduling. Also, modeling population and financial growth as well as gathering data and representing data.
- NC 205** **Structure & Concepts in Math I Support** (N/A)
Class Hours: 18 Lecture P/NP
Corequisite(s): MATH 010A
- 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 210** **ESL for College and Work** (N/A)
Class Hours: 36 Lecture P/NP
- 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.
- NC 125** **Intermediate Read, Writing & Speaking** (N/A)
Class Hours: 54 Lecture P/NP
- ESL 125 is for students whose native language is not English but who can already speak basic English. This course continues conversation practice with an emphasis on increasing vocabulary, fluency and reading comprehension.
- NC 130** **Advanced Reading, Writing & Speaking** (N/A)
Class Hours: 54 Lecture P/NP
- ESL 130 is for students whose native language is not English. This course emphasizes advanced reading, grammar and sentence writing. This course prepares students for college level reading and writing.
- NC 135** **Advanced Com Skills for Life & Career** (N/A)
Class Hours: 54 Lecture P/NP
- ESL 135 is for students who have advanced ESL skills in reading, writing, and speaking. Students will practice communication skills necessary for career and life. This will be done through presentations, role playing, and mock interviews.
- NC 152A** **Citizenship/The Naturalization** (N/A)
Class Hours: 36 Lecture P/NP
- 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.
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NC 152B Citizenship/U.S. Hist & Government (N/A)
Class Hours: 36 Lecture *P/NP*

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*

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

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) Prep (N/A)
Class Hours: 54 Lecture | 108 Laboratory *P/NP*

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

Nutrition (NUT)

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

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 001 Introduction to Theater (3)
Class Hours: 54 Lecture
Advisory(s): ENG 051A
Transfers to: UC/CSU

PA 001 is a survey of major dramatic forms and works for theatre. Areas to be covered include the purpose of theatre, major historical literary periods and their relationships to the socio-economic and political issues of their times, a behind-the-scenes look at play production, multi-cultural contributions to Western theatre, and contemporary trends. Lectures will be combined with play reading and viewing of video taped scenes.

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- PA 003 Film Appreciation (3)**
Class Hours: 54 Lecture
Transfers to: UC/CSU
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 005 Voice & Diction (3)**
Class Hours: 54 Lecture
Transfers to: UC/CSU
PA 005 is a basic approach in the theory and practice of the principles of voice and speech with the objective of freeing the natural voice. Skills that will be covered include the following: centering sound, increasing clarity, resonance, vocal range, and expressiveness. Voice improvement is achieved through vocal and physical exercises in posture, relaxation, articulation, enunciation, characterization, breathing and free vocal release. Standard American English is taught through the use of the International Phonetic Alphabet. Though this course aims at the stage performer, it is equally as valuable for those whose seek to improve vocal quality and achieve effective oral communication.
- PA 014 Fundamentals of Acting (3)**
Class Hours: 54 Lecture
Transfers to: UC/CSU
PA 014 is designed to introduce the novice actor to the theatre. With emphasis on personal and artistic growth in a supportive environment, the students will learn proper methods of warming up and basic vocal, physical, emotional and psychological characterizations. The student will develop confidence on stage by performing in short scenes and by learning techniques of auditioning, including monologues, prepared scripts and cold reading. The course will also include theatre games and a backstage tour of the West Hills College Theatre facility.
- PA 021 Play Production (1 - 3)**
Class Hours: 162 Laboratory
Transfers to: UC/CSU
PA 021 is the rehearsal and presentation of a serious dramatic play before a public audience. Students will specialize in either acting or technical theatre, working with the director and designers to create production/performance team.
- PA 022 Theater Workshop (4)**
Class Hours: 36 Lecture | 108 Laboratory
Transfers to: UC/CSU
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
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
PA 025 provides instruction in basic modern, jazz and folkloric dance techniques for the performing arts.
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PA 032 Stage Lighting and Sound (3)*Class Hours: 36 Lecture | 54 Laboratory**Advisory(s): ENG 051A**Transfers to: UC/CSU*

PA 032 combines the theory, techniques and procedures necessary to develop and integrate sound and lighting to prepare play and stage productions for major public performance.

PA 035 Theater Crafts (3)*Class Hours: 36 Lecture | 54 Laboratory**Advisory(s): ENG 051A**Transfers to: UC/CSU*

PA 035 introduces students to scene construction, materials and hardware. Students will learn painting techniques, stage lighting techniques and will gain experience in preparing plays for performance.

PA 042A Television Production Camera Operation (4)*Class Hours: 54 Lecture | 54 Laboratory**Advisory(s): ENG 051A**Transfers to: CSU*

P/NP

PA 042A this course is an introduction to camera operation for Film and Video Production. It will combine classroom lecture with Electronic News Gathering (ENG, and Electronic Field Production (EFP). The course requires each student to complete several short video projects and related assignments designed to help develop the skills needed to produce high quality video productions. The emphasis of the course is on field production and camera techniques.

PA 042B Television Production Editing (4)*Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(s): PA 042A**Transfers to: CSU*

P/NP

PA 042B is an introduction to television production editing. It will combine lecture, studio experience at locations such as TV production sites, distance learning sites and independent work.

PA 042C Television Production Project (4)*Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(s): PA 042B**Transfers to: CSU*

P/NP

PA 042C combines lecture, studio experience at locations such as TV production sites, distance learning sites, and independent work. Students will be required to work on a specific video project for use as a portfolio video tape that reflects their efforts on a creative class project program.

PA 044 Television Workshop (4)*Class Hours: 36 Lecture | 108 Laboratory**Transfers to: UC/CSU*

PA 044 is designed to provide meaningful work experience for students producing and promoting a television series. The course is designed to provide "hands on" experience in all aspects of television production. Participants will be trained in and involved with writing, directing, producing, acting, singing, dancing audio/lighting technology, videography, music scoring, advertising, art, production business, and public relations techniques. Students will rotate responsibilities to gain a variety of experiences related to the production process. The finished product will be a television series designed to air on broadcast television.

Philosophy (PHIL)

PHIL 001 Introduction to Philosophy (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

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.

PHIL 002 Introduction to Logic (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

PHIL 002 teaches students to use the basic methods of critical thinking, including inductive and deductive forms of reasoning to define and solve academic and everyday problems.

PHIL 003 Ethics (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

PHIL 003 is a study of classical and contemporary ethics to aid students in clarifying their values in response to ethical concerns.

Physical Education (PE)

PE 002 Pilates (0.5 - 1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

P/NP

PE 002 will focus on beginning level Pilates movements that may incorporate bands, rings, balls and weights. The student will learn body conditioning routines that seek to build flexibility, strength, endurance and coordination without adding muscle bulk to help sculpt the body and strengthen the "core" or "powerhouse" (torso).

PE 003 Advanced Pilates (0.5 - 1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

P/NP

PE 003 will focus on intermediate level Pilates movements that will incorporate bands, rings, balls, and weights. The student will learn body conditioning routines that seek to build flexibility, strength, endurance and coordination without adding muscle bulk to help sculpt the body and strengthen the "core" or "powerhouse" (torso).

PE 006 Body Conditioning (1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

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

PE 011 Golf (1)

Class Hours: 9 Lecture | 27 Laboratory

Transfers to: UC/CSU

P/NP

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

PE 016 Jogging and Power Walking (0.5 - 1)
Class Hours: 54 Laboratory P/NP
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.

PE 019 Adaptive Physical Education (1)
Class Hours: 54 Laboratory P/NP
Prerequisite(s): Student must have a verifiable disability
Transfers to: UC/CSU

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

PE 021A Introductory Fitness Lab (1)
Class Hours: 54 Laboratory
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.

PE 021B Beginning Fitness Lab (1)
Class Hours: 54 Laboratory
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
Transfers to: UC/CSU

PE 021C is the third 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 021D Advanced Fitness Lab (1)
Class Hours: 54 Laboratory
Transfers to: UC/CSU

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

PE 022A is the first in a series of four courses designed to provide instruction and practice in the basic skills necessary for participation in competitive volleyball. The course will develop introductory skills and knowledge of the game, with specific emphasis on the individual skills of passing, setting, serving, and attacking.

PE 022B Intermediate Volleyball (1)

Class Hours: 54 Laboratory

PE 022A:

Transfers to: UC/CSU

PE 022B is the second in a series of four courses 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 individual skills of passing, setting, serving, and attacking.

PE 022C Advanced Volleyball (1)

Class Hours: 54 Laboratory

PE 022B:

Transfers to: UC/CSU

PE 022C is the third in a series of four courses 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.

PE 022D Master Volleyball (1)

Class Hours: 54 Laboratory

Prerequisite(s): PE 022C

Transfers to: UC/CSU

PE 022D is the fourth in a series of four courses 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.

PE 023 Weight Training (1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

P/NP

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

P/NP

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

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

PE 032A is the first in a series of three courses designed to provide instruction and practice in the basic skills necessary to participate in competitive basketball. The course will develop introductory skills and knowledge of the game, with specific emphasis on the individual skills of passing, dribbling, and shooting.

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

PE 032B is the second in a series of three courses designed to provide instruction and practice in the intermediate skills necessary for participation in competitive basketball. The course will develop intermediate skills and knowledge of the game, with specific emphasis on the individual skills of passing, dribbling, and shooting.

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

PE 032C is the third in a series of three courses designed to provide instruction and practice in the advanced skills necessary for participation in competitive basketball. The course will develop advanced skills and knowledge of the game, with specific emphasis on the individual and team skills as they relate to defensive and offensive systems.

PE 045 Coaching Team Sports (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: CSU*

PE 045 is designed for students interested in coaching team sports. The course will emphasize the components of team concepts and the organizational skills needed to implement and conduct a team sport program. Many of the concepts are applicable to individuals, etc.

Physical Science (PHYSICI)**PHYSICI 001 Survey of the Physical Sciences (4)***Class Hours: 54 Lecture | 54 Laboratory**Transfers to: UC/CSU*

PHYSICI 001 is a general study of physical principles that operate throughout the universe, including a brief integrated study of force, motion energy, electricity, light, structure of the atom, interaction of matter, and study of the earth, planets, and stars. No credit will be allowed for physical science if the student is concurrently enrolled in, or has taken, a college chemistry, physics, geology or astronomy course.

PHYSICI 002 Chemistry and Physics for Educators (4)*Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(S); MATH 061 (Required, Previous or concurrent).:**Transfers to: CSU**C-ID: CHEM 140*

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.

Political Science (POLSCI)**POLSCI 001 American Government (3)***Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: POLS 110*

POLSCI 001 is an introductory study of American government at the national, state and local level. Included are the institutions, processes and policies of the United States and of California. This course satisfies, in part, the American history and institutions requirements for CSU.

POLSCI 002 Comparative Government (3)*Class Hours: 54 Lecture**Prerequisite(s): ENG 051A**Transfers to: UC/CSU**C-ID: POLS 130*

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 Introduction to International Relations (3)*Class Hours: 54 Lecture**Advisory(s); ENG 051A:**Transfers to: UC/CSU**C-ID: POLS 140*

P/NP

POLSCI 004 will study how nation states interact with each other in an international system; through the use of various governmental organizations nation states will try to gain advantage over other nation-states to become the hegemony. Students analyze theories of international relations, balance of power, and basic concepts of politics around the world.

POLSCI 005 Introduction to Political Theory (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: POLS 120*

POLSCI 005 will examine the philosophies of great political thinkers from the great Greek thinkers of Socrates, Plato and Aristotle to Locke and Weber. An in-depth analysis of human nature and acquisition of power will be covered. This class will delve deep into Plato's cave to discover the thinking of these great political philosophers.

POLSCI 010 Modern Politics (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: POLS 150*

POLSCI 010 entails an in depth analysis of the American legal system--constitutional law to statutory and common law implementation. Students will examine court rulings and see how those rulings have evolved, changing civil liberties and society over time. The course will also explore the philosophy of law. For example, what is good and evil and how law deals with each issue on an individual's basis.

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

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 Program Orient (1.5)*Class Hours: 27 Lecture*

PT 101 will prepare the student for the West Hills College Psychiatric Technician Training Program. Students will receive a program handbook, orientation to policy and procedures, calendars, syllabi, travel expectations and required material.

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- PT 052 Medical Surgical Nursing (4.5)**
Class Hours: 81 Lecture
Prerequisite(s): VNPT 051
Corequisite(s): PT 052L
- PT 052 will present intermediate and advanced nursing care skills and the role and responsibilities of the professional nurse/psychiatric technician. Students will learn medical /surgical nursing skills using a body-systems approach.
- PT 052L Medical Surgical Nursing Clinical (3)**
Class Hours: 162 Laboratory
Corequisite(s): PT 052
- 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 061 Intro. to Developmental Disabilities (5)**
Class Hours: 90 Lecture
Prerequisite(s): PT 052, PT 052L and VNPT 060
Corequisite(s): PT 061L, and VNPT 082
- 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.
- PT 061L Intro to Develop Disabilities Clinical (3)**
Class Hours: 162 Laboratory
Corequisite(s): PT 061
- 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 (4.5)**
Class Hours: 81 Lecture
Prerequisite(s): PT 061, and PT 061L
Corequisite(s): PT 062L, and VNPT 082
- PT 062 examines the care of individuals with intellectual and developmental disabilities originating from genetic and gestational factors. Students will also be presented with the history and use of applied behavior analysis and behavior modifications strategies.
- PT 062L Developmental Disab Nursing Clinical (3)**
Class Hours: 162 Laboratory
Corequisite(s): PT 062
- 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 071 Introduction to Mental Disorders (5)**
Class Hours: 90 Lecture
Prerequisite(s): PT 062, PT 062L, and VNPT 070
Corequisite(s): PT 071L, and VNPT 083
- 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.
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PT 071L Intro to Mental Disorders Clinical (3)

Class Hours: 162 Laboratory

Corequisite(s): PT 071

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 relate 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 (4.5)

Class Hours: 81 Lecture

Prerequisite(s): PT 071, PT 071L

Corequisite(s): PT 072L, and VNPT 083

PT 072 will be an in-depth study of 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 072L Mental Disorders Clinical (3)

Class Hours: 162 Laboratory

Corequisite(s): PT 072

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.

Psychology (PSYCH)

PSYCH 001 Introductory Psychology (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: PSY 110

PSYCH 001 is the scientific study of behavior and mental processes. The content focuses on the exploration of major psychological theories and concepts, methods, and research findings in psychology. Topics include the biological bases of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, development, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology.

PSYCH 002 Abnormal Psychology (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: PSY 120

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

P/NP

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: PSY 180

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: CSU

C-ID: PSY 115

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

Transfers to: UC/CSU

C-ID: PSY 150

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 and MATH 025 Minimum Grade C

Transfers to: UC/CSU

C-ID: PSY 200

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 Intro to Sport & Exercise Psychology (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

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 Introduction to Social Welfare (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

SW 020 is an introductory course which examines the social, economic, political, historical and philosophic components of social welfare and the development of the social work profession in Western society.

Sociology (SOC)

SOC 001 Introduction to Sociology (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: SOCI 110

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 and Social Problems (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: SOCI 115

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

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.

Soil Science (SLSCI)

SLSCI 021 Introduction to Soil Science (4)

Class Hours: 54 Lecture | 54 Laboratory

Transfers to: UC/CSU

C-ID: AG-PS 128L

SLSCI 021 is the study of soil formation, classification, and characteristics. Soil use and management including pH, fertility, salinity, erosion, organic matter and microbiology will also be discussed. Laboratory topics include soil type, classification, chemistry, fertility and hydraulic and physical properties of soil.

Vocational Nursing and Psych T (VNPT)

VNPT 050 Anatomy for Nurses (2)

Class Hours: 36 Lecture

Prerequisite(s): ENG 051A

Advisory(s): HS 005

VNPT 050 will present an overview of basic human anatomy and physiology necessary to provide psychiatric technician and vocational nursing students with the foundational understanding of the structure and function of healthy human body systems.

VNPT 051 Fundamentals of Nursing (5)

Class Hours: 90 Lecture

Prerequisite(s); ENG 051A, Math 101, or VNPT 090, VNPT 050, or BIO 032:

Advisory(s): HS 005

Corequisite(s): VNPT 051L, VNPT 081

VNPT 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.

VNPT 051L Fundamentals of Nursing Clinic (3)

Class Hours: 162 Laboratory

Corequisite(s): VNPT 051, and VNPT 081

VNPT 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.

VNPT 060 Life Span for Nurses (2)

Class Hours: 36 Lecture

Advisory(s): ENG 051A

VNPT 060 will present an overview of basic human development from gestation through adult necessary to provide psychiatric technician and vocational nursing students with the foundational understanding of the human life span.

VNPT 070 Psychology for Nurses (2)

Class Hours: 36 Lecture

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

VNPT 081 Pharmacology 1 (1)

Class Hours: 18 Lecture

Prerequisite(s): ENG 051A, MATH 101, VNPT 090, VNPT 050, or BIO 032

Corequisite(s): VNPT 051, VNPT 051L

Advisory(s): HS 005

VNPT 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. This course will help students understand drug classifications, effects, and client teaching principles with emphasis on anti-infective, cardiovascular, respiratory, renal, gastrointestinal and endocrine medications.

VNPT 082 Pharmacology 2 (1)

Class Hours: 18 Lecture

Prerequisite(s): VNPT 081

Corequisite(s): PT 061, and PT 061L

VNPT 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 principles with emphasis on: central nervous system drugs, medications used to modify behavior, immunizing agents, immune-suppressives, chemotherapeutics, respiratory system medications, analgesics, anti-inflammatories, gastrointestinal medications, and antimicrobials.

VNPT 083 Pharmacology 3 (1)

Class Hours: 18 Lecture

Prerequisite(s): VNPT 082

Corequisite(s): PT 071, and PT 071L

VNPT 083 is a continuation of basic pharmacological principles, 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 principles with emphasis on: adrenergic, cholinergic, antipsychotic, antidepressant, and anxiolytic drugs.

VNPT 090 Math for Medical Professions (1)

Class Hours: 18 Lecture

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

Welding Technology (WT)

WT 015X Occupational Work Experience (1 - 8)

Class Hours: Work Experience

Transfers to: CSU

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 Welding (2.5)

Class Hours: 36 Lecture | 27 Laboratory

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

Advisory(s): WT 070

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

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 Symbols (1.5)

Class Hours: 27 Lecture

Advisory(s): WT 072

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

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

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 Certification Preparation (0.5)

Class Hours: 27 Laboratory

Prerequisite(s): WT 071

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).