

Course Descriptions

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

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Administration of Justice (AOJ)

AOJ 001 Intro to Criminal Justice (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: AJ 110

Introduction to Criminal Justice

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 Intro to Corrections (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: AJ 200

Introduction to Corrections

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

AOJ 004 Control & Supervision Inmates (3)

Class Hours: 54 Lecture

Transfers to: CSU

Control & Supervision of Inmates

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

AOJ 006 Correct Interviewing & Couns. (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

Correctional Interviewing and Counseling

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

AOJ 007 Legal Aspects of Corrections (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

Legal Aspects of Corrections

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

AOJ 010 Principles & Proc of Crim Just (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: AJ 122

Principles & Procedures of Criminal Justice

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

AOJ 012 Written Criminal Justice Comm (3)

Class Hours: 54 Lecture

Transfers to: CSU

Written Criminal Justice Communications

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

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

Occupational Work Experience

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

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

Human and Community Relations in Criminal Justice

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

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

Criminal Law

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

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

Criminal Evidence

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

AOJ 024 Criminal Investigation (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: AJ 140

Criminal Investigation

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

AOJ 029 Criminology (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: SOCI 160

Criminology

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

AOJ 032 Juvenile Delinquency (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A

Transfers to: UC/CSU

C-ID: AJ 220

Juvenile Delinquency

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

AOJ 044 Understanding Gangs (3)

Class Hours: 54 Lecture

Advisory(s): AOJ 001 or ENG 051A

Transfers to: UC/CSU

Understanding Gangs

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

Agriculture (AG)

AG 011 Agriculture Sales and Commun (3)

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: AG-AB 112

Agriculture Sales and Communication

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

AG 014 Tractor Operations (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

C-ID: AG-MA 108L

Tractor Operations

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

AG 015X Occupational Work Experience (1 - 8)

Class Hours: Work Experience

Transfers to: CSU

Occupational Work Experience

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

Agriculture Business (AGBUS)

AGBUS 015 Computer Application to Agricu (3)

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: AG-AB 108

Computer Application to Agriculture

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

AGBUS 024 Agricultural Accounting (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: AG-AB 128

Agricultural Accounting

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

AGBUS 040 Intro Agricultural Economics (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: AG-AB 124

Introductory Agricultural Economics

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

Agriculture Engineering Tech (AET)

AET 015 CAD for Agriculture (2)

Class Hours: 108 Laboratory

Transfers to: UC/CSU

CAD for Agriculture

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

AET 021 Ag-Irrigation Management (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Ag-Irrigation Management

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

ART 003 Three Dimensional Design Fund (3)

Class Hours: 27 Lecture | 81 Laboratory

Transfers to: UC/CSU

C-ID: ARTS 101

Three-Dimensional Design Fundamentals

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

ART 005A Basic Drawing (3)

Class Hours: 27 Lecture | 81 Laboratory

Advisory(s): ENG-001A or ESL-001

Transfers to: UC/CSU

C-ID: ARTS 110

Basic Drawing

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

ART 005B Intermediate Drawing (3)

Class Hours: 27 Lecture | 81 Laboratory

Prerequisite(s): ART 005A

Advisory(s): ENG-001A or ESL-001

Transfers to: UC/CSU

C-ID: ARTS 205

Intermediate Drawing

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

ART 008 Color Theory (3)

Class Hours: 27 Lecture | 81 Laboratory

Advisory(s): ART 008

Advisory(s): ENG 001A or ESL 001

Transfers to: UC/CSU

C-ID: ARTS 270

Color Theory

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

ART 013A Beginning Ceramics (3)

Class Hours: 27 Lecture | 81 Laboratory

Advisory(s): ENG 051A

Transfers to: UC/CSU

Beginning Ceramics

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

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- ART 013B Intermediate Ceramics (3)**
Class Hours: 27 Lecture | 81 Laboratory
Prerequisite(s): ART 013A
Transfers to: UC/CSU
- Intermediate Ceramics
ART 013B offers additional lecture and studio time to further explore hand building, glazing, and wheel throwing techniques based on historical and contemporary approaches.
- ART 013C Advanced Ceramics (3)**
Class Hours: 27 Lecture | 81 Laboratory
Prerequisite(s): ART 013B
Transfers to: UC/CSU
- Advanced Ceramics
ART 013C will offer further lecture and studio time to explore concepts and theories of ceramics.
- ART 015A Beginning Painting (3)**
Class Hours: 27 Lecture | 81 Laboratory
Advisory(s): ENG 001A or ESL 001
Advisory(s): ART 005A
Transfers to: UC/CSU
C-ID: ARTS 210
- Beginning Painting
ART 015A will offer lecture and studio time to explore the heritage and fundamentals of painting, including materials and techniques, color theory, as well as creative responses to materials and subject matter. An introduction to visual art elements, principles of design, and painting practices will be covered.
- ART 015B Intermediate Painting (3)**
Class Hours: 27 Lecture | 81 Laboratory
Prerequisite(s): ART 015A
Transfers to: UC/CSU
- Intermediate Painting
ART 015B will offer further lectures and studio time to explore the heritage and fundamentals of painting.
- ART 015C Advanced Painting (3)**
Class Hours: 27 Lecture | 81 Laboratory
Prerequisite(s): ART 015B
Advisory(s): ENG 051A
Transfers to: UC/CSU
- Advanced Painting
ART 015C will offer further lecture and studio time to explore concepts and theories of painting.
- ART 016A Survey of Western Art (3)**
Class Hours: 54 Lecture
Advisory(s): ENG 051A
Transfers to: UC/CSU
C-ID: ARTH 110
- Survey of Western Art: Pre-History to Proto-Renaissance
ART 016A is a survey of the arts and architecture from the beginning of recorded history through the Middle Ages in Western Culture.
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ART 016B Survey of Western Art (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A or ESL 001

Advisory(s): ART 016A

Transfers to: UC/CSU

C-ID: ARTH 120

Survey of Western Art: Renaissance to The Present

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

ART 042 Art Appreciation (3)

Class Hours: 54 Lecture

Advisory(s): ESL 001 or ENG 001A

Transfers to: UC/CSU

C-ID: ARTH 100

Art Appreciation

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

Athletics (ATHL)

ATHL 002 Fundamentals of Softball (0.5 - 3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Fundamentals of Softball

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

ATHL 003 Fundamentals of Football (0.5 - 3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Fundamentals of Football

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

ATHL 004 Fund of Men's Basketball (0.5 - 3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Fundamentals of Men's Basketball

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

ATHL 006 Fundamentals of Baseball (0.5 - 3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Fundamentals of Baseball

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

ATHL 007 Fundamentals of Volleyball (2)

Class Hours: 117 Laboratory

P/NP

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

Transfers to: UC/CSU

Fundamentals of Volleyball

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

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

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Fundamentals of Men's Rodeo

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

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

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Fundamentals of Women's Rodeo

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

ATHL 022 Intercollegiate Softball (3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Softball

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

ATHL 023 Intercollegiate Football (3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Football

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

ATHL 024 Intercollegiate Men's Basketball (3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Men's Basketball

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

ATHL 026 Intercollegiate Baseball (3)

Class Hours: 175 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Baseball

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

ATHL 027 Intercollegiate Women's Volley (3)

Class Hours: 175 Laboratory

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

Transfers to: UC/CSU

Intercollegiate Women's Volleyball

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

ATHL 036 Intercollegiate Men's Rodeo (1.5)

Class Hours: 87.5 Laboratory

Prerequisite(s): Medical approval from a licensed physician

Transfers to: UC/CSU

Intercollegiate Men's Rodeo

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

ATHL 037 Intercollegiate Women's Rodeo (1.5)*Class Hours: 87.5 Laboratory**Prerequisite(s): Medical approval from a licensed physician**Transfers to: UC/CSU*

Intercollegiate Women's Rodeo

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

ATHL 038 Intercollegiate Cross-Country (3)*Class Hours: 175 Laboratory**Transfers to: UC/CSU*

Intercollegiate Cross-Country

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

Biology (BIO)**BIO 001A Cell and Molecular Biology (4)***Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(s): CHEM 001A**Prerequisite(s): MATH 063 or MATH 064**Transfers to: UC/CSU**C-ID: BIOL 190/135S*

Cell and Molecular Biology

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

BIO 001B Organismal Biology (4)*Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(s): MATH 063 or MATH 064**Advisory(s): BIO 001A and ENG 051A**Transfers to: UC/CSU**C-ID: BIOL 140/135S*

Organismal Biology

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

BIO 010 Fundamentals of Biology (3)*Class Hours: 36 Lecture | 54 Laboratory**Advisory(s): ENG 051A**Transfers to: UC/CSU*

Fundamentals of Biology

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

BIO 015 **Biology for Education** (3)

Class Hours: 36 Lecture | 54 Laboratory

Advisory(s): ENG 001A

Transfers to: UC/CSU

Biology for Education

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

BIO 032 **Human Anatomy** (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): ENG 051A

Prerequisite(s): Math 063 or Math 064

Advisory(s): BIO 010 and HS 005

Transfers to: UC/CSU

C-ID: BIOL 110B

Human Anatomy

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

BIO 035 **Human Physiology** (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): ENG 051A

Prerequisite(s): MATH 063 or MATH 064

Advisory(s): BIO 010 and CHEM 002A

Transfers to: UC/CSU

C-ID: BIOL 120B

Human Physiology

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

BIO 038 **Microbiology** (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): CHEM 002A or CHEM 001A

Advisory(s): ENG 001A and BIO 010

Transfers to: UC/CSU

Microbiology

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

Business (BUS)

BUS 001A Beg Principles of Accounting (4)

Class Hours: 72 Lecture

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

Transfers to: UC/CSU

C-ID: ACCT 110

Beginning Principles of Accounting

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

BUS 001B Elementary Principles of Acct. (4)

Class Hours: 72 Lecture

Prerequisite(s): BUS 001A

Transfers to: UC/CSU

C-ID: ACCT 120

Elementary Principles of Accounting

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

BUS 002 Introductory Keyboarding (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

P/NP

Introductory Keyboarding

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

BUS 003 Intermediate Keyboarding (3)

Class Hours: 36 Lecture | 54 Laboratory

Prerequisite(s): BUS 002

Transfers to: CSU

P/NP

Intermediate Keyboarding

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

BUS 013A Word for Windows I (1.5)

Class Hours: 27 Lecture

Transfers to: CSU

C-ID: BSOT 111X

Word for Windows I

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

BUS 020 Introduction to Business (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: BUS 110

Introduction to Business

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

BUS 024 Business Mathematics (3)

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: BSOT 115X

Business Mathematics

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

BUS 028 Business Communication (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

Business Communication

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

BUS 031A MS PowerPoint I (1)

Class Hours: 18 Lecture

Transfers to: CSU

MS PowerPoint I

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

BUS 031B MS PowerPoint II (1)

Class Hours: 18 Lecture

Prerequisite(s): BUS 031A

Transfers to: CSU

MS PowerPoint II

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

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

Small Business Management

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

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

Human Resources Management

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

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

Bookkeeping

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

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

Filing and Records Management

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

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

Computerized Accounting

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

CHEM 012A Organic Chem for Sci Majors I (3)

Class Hours: 54 Lecture

Prerequisite(s): CHEM 001A

Co-Requisite(s): CHEM 012AL

Advisory(s): CHEM 001B

Transfers to: UC/CSU

C-ID: CHEM 150/160 S

Organic Chemistry for Science Majors I

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

CHEM 012AL Organic Chemistry Lab for Scie (2)

Class Hours: 18 Lecture | 72 Laboratory

Prerequisite(s): CHEM 001A , CHEM 001B

Corequisite(s): CHEM 012A

Transfers to: UC/CSU

C-ID: CHEM 150/160 S

Organic Chemistry Lab for Science Majors I

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

CHEM 012B Organic Chemistry for Science (3)

Class Hours: 54 Lecture

Prerequisite(s): CHEM 001A and CHEM 012A

Advisory(s): CHEM 001B

Transfers to: UC/CSU

C-ID: CHEM 160 S

Organic Chemistry for Science Majors II

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

CHEM 012BL Organic Chemistry Lab for Scie (2)

Class Hours: 18 Lecture | 72 Laboratory

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

Corequisite(s): CHEM 012B

Transfers to: UC/CSU

C-ID: CHEM 160 S

Organic Chemistry Lab for Science Majors II

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

Child Development (CD)**CD 002 Teaching in a Diverse Society (3)**

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: ECE 230

Teaching in a Diverse Society

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

CD 003 Observation and Assessment (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

C-ID: ECE 200

Observation and Assessment

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

CD 004 Parenting (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

Parenting

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

CD 005 Child Development (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: CDEV 100

Child Development

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

CD 006 Child and Adolescent Developme (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

Child and Adolescent Development

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

CD 010 Child, Family and Society (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: CDEV 110

Child, Family and Society

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

CD 012A Principles & Practices of ECE (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

C-ID: ECE 120

Principles & Practices of Early Childhood Education

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

CD 012B Principles & Practices of ECE (3)

Class Hours: 18 Lecture | 108 Laboratory

Prerequisite(s): CD-005, CD-010, CD-012A, and CD-016

Transfers to: CSU

C-ID: ECE 210

Principles and Practices of Early Childhood Education Field Work

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

CD 014A Adm. & Superv. of Child. Prgrm (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

Administration and Supervision of Children's Programs

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

CD 014B Adm. & Superv. of Child. Pgrm (3)

Class Hours: 36 Lecture | 54 Laboratory

Advisory(s): ENG 051A

Transfers to: CSU

Administration and Supervision of Children's Programs Fieldwork

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

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

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

Literature and Language Arts for Young Children

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

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

Occupational Work Experience

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

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

Introduction to Curriculum

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

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

Sex Education for Parents and Teachers

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

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

Child Abuse Recognition and Prevention

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

CD 024 School-Age Development (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

School-Age Development

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

CD 025 School-Age Curriculum (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

School-Age Curriculum

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

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

Class Hours: 18 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

Foundation of School-Age Child Care

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

CD 026B Quality School-Age Care (1)

Class Hours: 18 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

Quality School-Age Care

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

CD 026C School-Age Sports and Act. (1)

Class Hours: 18 Lecture

Advisory(s): ENG 051A

Transfers to: CSU

School-Age Sports and Activities

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

Communication (COM)

COM 001 Elements of Speech (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: COMM 110

Elements of Speech

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 Literat (3)

Class Hours: 54 Lecture

Prerequisite(s): COM 001

Transfers to: UC/CSU

C-ID: COMM 170

Oral Interpretation of Literature

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

COM 003 Argumentation and Debate (3)

Class Hours: 54 Lecture

Prerequisite(s): COM 001

Transfers to: UC/CSU

C-ID: COMM 120

Argumentation and Debate

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

COM 004 Small Group Dynamics & Present (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A

Transfers to: UC/CSU

C-ID: COMM 140

Small Group Dynamics and Presentation

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

COM 005 Interpersonal Communication (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A

Transfers to: UC/CSU

C-ID: COMM 130

Interpersonal Communication

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

COM 006 Intercultural Communication (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A

Transfers to: UC/CSU

C-ID: COMM 150

Intercultural Communication

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

Computer Information Systems (CIS)**CIS 002 Internet Programming HTML/CSS (3)**

Class Hours: 54 Lecture

Transfers to: UC/CSU

Internet Programming HTML/CSS

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

CIS 002D Intro to Prog. Concepts & Meth (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

Introduction to Programming Concepts and Methodologies - Java

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

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

P/NP

MS PowerPoint II

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

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

P/NP

MS Outlook

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

CIS 034 Introduction to Spreadsheets (Ends 12/13/2024)**(3)***Class Hours: 54 Lecture**Transfers to: CSU*

P/NP

Introduction to Spreadsheets (Ends 12/13/2024)

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

CIS 034S Introduction to Spreadsheets (Effective Spring 2025)**(3)***Class Hours: 54 Lecture**Transfers to: CSU*

Introduction to Spreadsheets (Effective Spring 2025)

CIS 034S 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 | 9 Laboratory**Prerequisite(s): CIS 034**Transfers to: CSU*

P/NP

Advanced Spreadsheets

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

CIS 049 Directed Study (1 - 2)

Class Hours: 108 Laboratory

Transfers to: CSU

Directed Study

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

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

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: UC/CSU

C-ID: AG-PS 106L

Introduction to Plant Science

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

CRPSCI 002 Plant Science Theory (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

C-ID: AG-PS 104

Plant Science Theory

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

CRPSCI 006 Intro to Precision Agriculture (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Introduction to Precision Agriculture

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

CRPSCI 007 Advanced Precision Agriculture (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Advanced Precision Agriculture

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

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

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: UC/CSU

Applications of Geospatial Technology

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

CRPSCI 017 **Control & Sensor Systems in Ag** (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Control and Sensor Systems in Ag

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

CRPSCI 018 **Precision Ag Software** (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: CSU

Precision Ag Software

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

CRPSCI 019 **California Water** (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

California Water

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

CRPSCI 021 **Orchard Production** (3)

Class Hours: 36 Lecture | 54 Laboratory

Transfers to: UC/CSU

Orchard Production

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

DT 074 Hazardous Materials Transporta (1)

Class Hours: 18 Lecture

Hazardous Materials Transportation

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

DT 079 Commercial Driver Testing (0.5)

Class Hours: 27 Laboratory

Co-Requisite(s): DT 050, DT 052, and DT 058

Commercial Driver Testing

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

DT 094 Introduction to Diesel Engine (3)

Class Hours: 36 Lecture | 54 Laboratory

Introduction to Diesel Engine Repair

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

DT 095 Advanced Diesel Engine Repair (3)

Class Hours: 36 Lecture | 54 Laboratory

Prerequisite(s): DT 094

Advanced Diesel Engine Repair

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

DT 096 Hydraulics (3)

Class Hours: 36 Lecture | 54 Laboratory

Hydraulics

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

DT 097 Equipment Systems (3)

Class Hours: 36 Lecture | 54 Laboratory

Equipment Systems

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

Earth Science (ESCI)

ESCI 002 Introduction to Earth Science (4)

Class Hours: 54 Lecture | 54 Laboratory

Transfers to: UC/CSU

C-ID: GEOL 121

Introduction to Earth Science

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

Macroeconomics

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

ECON 001B Microeconomics (3)

Class Hours: 54 Lecture

Prerequisite(s): MATH 061

Advisory(s): MATH 063

Transfers to: UC/CSU

C-ID: ECON 201

Microeconomics

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

Education (EDUC)

EDUC 001 Introduction to Teaching (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A

Transfers to: UC/CSU

C-ID: EDUC 200

Introduction to Teaching

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

EDUC 005 Critical Think. in the Classrm (3)*Class Hours: 54 Lecture**Prerequisite(s): ENG 001A**Prerequisite(s): EDUC 001**Transfers to: UC/CSU*

Critical Thinking in the Classroom

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

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

Composition and Reading

ENG 001A is a transfer-level course emphasizing theory and practice in reading and composition. While the reading and writing may include rhetorical patterns such as narration, description, comparison/contrast, cause/effect, etc., the majority of assignments will focus on a combination of such patterns in argumentative writing, including but not limited to pro/con, evaluative, and proposal essays. Instruction in current research methods and MLA formatting is included, culminating in either one 10-page or two 5-page research papers.

ENG 002 Introduction to Literature (3)*Class Hours: 54 Lecture**Prerequisite(s): ENG 001A**Transfers to: UC/CSU**C-ID: ENGL 120*

Introduction to Literature

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

ENG 003 Critical Thinking and Writing (3)*Class Hours: 54 Lecture**Prerequisite(s): ENG 001A**Transfers to: UC/CSU**C-ID: ENGL 105*

Critical Thinking and Writing

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 006 Early American Literature (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A

Transfers to: UC/CSU

C-ID: ENGL 130

Early American Literature

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

ENG 007 Early British Literature (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A

Transfers to: UC/CSU

C-ID: ENGL 160

Early British Literature

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

ENG 008 Modern British Literature (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A

Transfers to: UC/CSU

C-ID: ENGL 165

Modern British Literature

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

ENG 025 Creative Writing (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A

Transfers to: UC/CSU

C-ID: ENGL 200

Creative Writing

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

ENG 051A Intro. to Communication Skills (3)

Class Hours: 54 Lecture

Corequisite(s): ENG 001A

Introduction to Communication Skills

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

FSS 015 Microbiology of Foods (4)

Class Hours: 54 Lecture | 54 Laboratory

Advisory(s): BIO 038 and CHEM 002A

Transfers to: CSU

Microbiology of Foods

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

FSS 020 Agriculture Laws & Regulations (2)

Class Hours: 36 Lecture

Transfers to: CSU

Agriculture Laws and Regulations

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

FSS 025 Principles of Hazard Analysis (3)

Class Hours: 54 Lecture

Transfers to: CSU

Principles of Hazard Analysis and Critical Control

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

FSS 030 Audits, Prev Controls & Prod S (3)

Class Hours: 54 Lecture

Transfers to: CSU

Audits, Preventive Controls and Produce Safety

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

FSS 035 Principles of Food Science (3)

Class Hours: 54 Lecture

Transfers to: CSU

Principles of Food Science

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

FSS 040 Facility Food Safety Management**(3)***Class Hours: 54 Lecture**Advisory(s): FSS 025**Transfers to: CSU*

Facility Food Safety Management

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

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

Introductory Spanish for the Limitedly Bilingual

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

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

Elementary Spanish for the Limitedly Bilingual

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

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

Introductory Conversational Spanish for Personal and Professional Use

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

FLSPN 052 **Elem Conv Span Pers/Prof Use** **(3)**
P/NP

Class Hours: 54 Lecture

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

Elementary Conversational Spanish For Personal and Professional Use

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

FLSPN 054 **Adv Conv Span Personal/Prof** **(3)**

Class Hours: 54 Lecture

Prerequisite(s): FLSPN 053

Advanced Conversational Spanish Personal And Professional Use

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

General Work Experience (WE)

WE 015XX **General Work Experience** **(1 - 6)**

Class Hours: Work Experience

Transfers to: CSU

General Work Experience

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

Geography (GEOG)

GEOG 001 **Physical Geography** **(4)**

Class Hours: 54 Lecture | 54 Laboratory

Advisory(s): ENG-001A and Eligibility for transferable mathematics

Transfers to: UC/CSU

C-ID: GEOG 115

Physical Geography

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

World Regional Geography

GEOG 002 is a survey of the physical, cultural, and economic features of the world's major geographic 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

Cultural Geography

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: UC/CSU

Regional Field Studies

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 001A

Transfers to: UC/CSU

C-ID: GEOG 140

Geography of California

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** (1 - 2)

Class Hours: 108 Laboratory

Transfers to: CSU

Directed Study Course

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

- GS 104** **Adapted Computer Literacy** (1)
Class Hours: 18 Lecture P/NP
Adapted Computer Literacy
GS 104 provides an introduction to basic computer components and common computer applications with emphasis on developing computer skills and exploring adaptations for effective computer use. This course is designed for students with learning and intellectual disabilities.
- GS 105** **Consumer Skills** (1)
Class Hours: 18 Lecture P/NP
Consumer Skills
GS 105 provides emphasis on home and money management, health, hygiene, and safety, food and nutrition. This course is designed for the students with severe developmental/learning disabilities.
- GS 106** **Independent Living Skills** (1)
Class Hours: 18 Lecture P/NP
Independent Living Skills
GS 106 provides basic independent living skills, including appropriate social interaction, self-advocacy, self-care, community involvement, personal choice and managing life events. Designed for the students with severe developmental/learning disabilities.
- GS 061** **Guidance Studies Content Area** (1)
Class Hours: 54 Laboratory
Guidance Studies Content Area Support
GS 061 is intended primarily for students with learning or other disabilities. The goal of this class is to assist students in mastering skills for success in their academic and vocational classes. Students will practice and apply GS 61 course content to their assignments from their academic or vocational classes. Course may be repeated as many times as needed to achieve course objectives.

Health Education (HE)

- HE 035** **Personal Health and Hygiene** (3)
Class Hours: 54 Lecture
Advisory(s): ENG-001A
Transfers to: UC/CSU
C-ID: PHS 100
Personal Health and Hygiene
HE 035 focuses on the exploration of major health issues and behaviors in the various dimensions of health. Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors. Topics include nutrition, exercise, weight control, mental health, stress management, violence, substance abuse, reproductive health, disease prevention, aging, healthcare, and environmental hazards and safety.

Health Science (HS)

- HS 005** **Medical Terminology** (3)
Class Hours: 54 Lecture
Advisory(s): ENG 051A
Transfers to: CSU
C-ID: HIT 103X
Medical Terminology
HS 005 emphasizes etymology of disease terms, nomenclature of medical and surgical procedures, use of prefixes, roots, combining forms and plurality of medical terms and comma medical abbreviations.
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HS 015X Occupational Work Experience (1 - 8)*Class Hours: Work Experience**Transfers to: CSU***Occupational Work Experience**

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

HS 040 Introduction to Public Health (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: PHS 101***Introduction to Public Health**

HS040 will provide an introduction to the discipline of Public Health. Students will gain an understanding of the basic concepts and terminologies of public health, and the history and accomplishments of public health officials and agencies. An overview of the functions of various public health professions and institutions, and an in-depth examination for the core public health disciplines are covered. Topics of the discipline include the epidemiology of infectious and chronic disease; prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; healthcare policy and management.

HS 045 Drugs, Health, and Society (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A and HE 035**Transfers to: UC/CSU**C-ID: PH 103***Drugs, Health, and Society**

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

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

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

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

Introduction to Medical Professional

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

HS 088 **Medical Terminology for Health** (2)
Class Hours: 36 Lecture

Medical Terminology for Health Careers

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

Heating Ventilation & Air Cond (HVAC)

HVAC 060 **Fundamentals of HVAC** (3)
Class Hours: 18 Lecture | 108 Laboratory
Advisory(s): IMT-060

Fundamentals of HVAC

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

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

Introduction to Heating and Refrigeration Cycles

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

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

HVAC Installation and Troubleshooting

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

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

Advanced HVAC Systems

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

Heavy Equipment (HVYEQUI)

HVYEQUI 060A Level I Heavy Equip Operation (5)

Class Hours: 54 Lecture | 108 Laboratory

Level I Heavy Equipment Operation

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 Operation (5)

Class Hours: 54 Lecture | 108 Laboratory

Prerequisite(s): HVYEQUI 060A

Level II Heavy Equipment Operations

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 Equip Op (5)

Class Hours: 54 Lecture | 108 Laboratory

Prerequisite(s): HVYEQUI 060B

Level III Heavy Equipment Operations

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

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 170

Western Civilization to 1700

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

HIST 004B Western Civilization From 1700 (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 180

Western Civilization From 1700

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

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

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 130

History of the United States 1492-1877

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-PRES (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A or ESL 001

Transfers to: UC/CSU

C-ID: HIST 140

History of the United States 1865-PRESENT

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

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 150

World History I

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

HIST 021 World History II (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: HIST 160

World History II

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

HIST 032 Cultural History of the Chican (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

Cultural History of the Chicano

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

HIST 044 Women's Roles in U.S. History (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

Women's Roles in United States History

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

Hotel, Restaurant, Casino Mgmt (HRCM)

HRCM 001 Intro to Hospitality Management (3)

Class Hours: 54 Lecture

Transfers to: CSU

C-ID: HOSP 100

Introduction to Hospitality Management

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

Humanities (HUM)

HUM 001 Intro to Western Culture (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

Introduction to Western Culture

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

HUM 022 Intro to Comparative Religion (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A

Transfers to: UC/CSU

Introduction to Comparative Religion

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

Industrial Mechanics Tech (IMT)

IMT 060 Industrial Core (3)

Class Hours: 36 Lecture | 54 Laboratory

Industrial Core

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 Maint. Mech Level I (3)

Class Hours: 18 Lecture | 108 Laboratory

Industrial Maintenance Mechanic Level I

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

IMT 062 Industrial Maint. Mech Lev II (4)

Class Hours: 18 Lecture | 162 Laboratory

Industrial Maintenance Mechanic Level II

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

IMT 070 Industrial Maint. Mech Lev III (4)

Class Hours: 18 Lecture | 162 Laboratory

Industrial Maintenance Mechanic Level III

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

Interdisciplinary Studies (IS)

IS 051 Portfolio Development (1)

Class Hours: 18 Lecture

P/NP

Portfolio Development

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

Kinesiology (KINES)

KINES 001 Introduction to Kinesiology (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A

Transfers to: UC/CSU

C-ID: KIN 100

Introduction to Kinesiology

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

KINES 002 Intro to Sport & Exercise Psyc (3)

Class Hours: 54 Lecture

Transfers to: UC/CSU

Introduction to Sport and Exercise Psychology

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

KINES 045 Coaching Team Sports (3)*Class Hours: 54 Lecture**Transfers to: UC/CSU*

Coaching Team Sports

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

KINES 046 Care & Prev of Athletic Injur (3)*Class Hours: 36 Lecture | 54 Laboratory**Transfers to: UC/CSU*

Care and Prevention of Athletic Injuries

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

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

First Aid and Safety

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

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

Introduction to Linguistics

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

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

Introduction to Calculus

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

MATH 001B **Calculus With Applications** (5)

Class Hours: 90 Lecture

Prerequisite(S): MATH 001A

Transfers to: UC/CSU

C-ID: MATH 220

Calculus With Applications

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

MATH 002A **Multivariate Calculus** (4)

Class Hours: 72 Lecture

Prerequisite(s): MATH 001B

Transfers to: UC/CSU

C-ID: MATH 230

Multivariate Calculus

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

MATH 002B **Differential Equations** (4)

Class Hours: 72 Lecture

Prerequisite(s): MATH 002A

Transfers to: UC/CSU

C-ID: MATH 240

Differential Equations

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

MATH 010A **Structure & Concepts in Math I** (3)

Class Hours: 54 Lecture

Prerequisite(s): MATH 063 or MATH 064

Transfers to: UC/CSU

C-ID: MATH 120

Structure & Concepts in Mathematics I

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

MATH 010B **Structure & Concepts in Math.** (3)

Class Hours: 54 Lecture

Prerequisite(s): MATH 010A

Transfers to: UC/CSU

Structure & Concepts in Mathematics II

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

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

Precalculus and Trigonometry

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

MATH 025 Introduction to Statistics (4)*Class Hours: 72 Lecture**Prerequisite(s): MATH 063 or MATH 064**Transfers to: UC/CSU**C-ID: MATH 110*

Introduction to Statistics

MATH 025 is an introduction to the use of probability 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 039 Quantitative Analysis (3)*Class Hours: 54 Lecture**Prerequisite(s): MATH 063 or MATH 064**Transfers to: UC/CSU*

Quantitative Analysis

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

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

Contemporary Math

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

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

Mathematics Directed Study

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

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

Elementary Algebra

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

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

Intermediate Algebra

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

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

Elementary and Intermediate Algebra

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

Music (MUS)

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

Music Appreciation

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

Non-Credit (NC)

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

Supervised Tutoring

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

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

Introduction to Tutoring and Supplemental Instruction

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

- NC 120** **Beg Read Writing & Spk Skills** (N/A)
Class Hours: 54 Lecture P/NP
 Beginning Reading, Writing, & Speaking Skills
 NC 120 is for students whose native language is not English. This course includes listening and speaking through correct grammatical use with an emphasis on developing conversation skills for everyday situations.
- NC 200** **College Reading and Writing Pr** (N/A)
Class Hours: 36 Lecture P/NP
Corequisite(s): ENG 001A
 College Reading and Writing Preparedness
 NC 200 is designed to provide support for students in English 001A. This course will give students additional time in class to better prepare them for the rigorous English 001A material. This course is combined with English 001A; students who wish to receive the additional curricular support will need to be enrolled in this section as well as its 001A counterpart.
- NC 201** **Algebra Support** (N/A)
Class Hours: 36 Lecture P/NP
Corequisite(s): MATH 063 or MATH 064
 Algebra Support
 NC 201 is a review of the core prerequisite skills, competencies, and concepts needed in intermediate algebra. Topics include: a review of computational skills, order of operations, factoring, operations on rational and radical expressions, exponential and logarithmic expressions and equations, linear and quadratic functions. Intended for majors in science, technology, engineering, and mathematics who are concurrently enrolled in MATH 064 or MATH 063.
- NC 202** **Intro to Statistics Support** (N/A)
Class Hours: 36 Lecture P/NP
Corequisite(s): MATH 025
 Introduction to Statistics Support
 NC 202 is a review of the core prerequisite skills, competencies, and concepts needed in statistics. Topics include concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. The course is for students who are concurrently enrolled in MATH 025.
- NC 203** **Precalculus Support** (N/A)
Class Hours: 36 Lecture P/NP
Corequisite(s): MATH 015 or MATH 016
 Precalculus Support
 NC 203 is a review of the core prerequisite skills, competencies, and concepts needed in precalculus. Topics include: a review of computational skills developed in intermediate algebra, factoring, operations on rational and radical expressions, absolute value equations and inequalities, exponential and logarithmic expressions and equations, conic sections, functions including composition and inverses, an in-depth focus on quadratic functions, and a review of topics from geometry. This course is intended for students who are concurrently enrolled in MATH 015 or MATH 016.
- NC 204** **Contemporary Mathematics Suppo** (N/A)
Class Hours: 18 Lecture P/NP
Corequisite(s): MATH 045
 Contemporary Mathematics Support
 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.
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NC 205 Structure & Concepts in Math I**(N/A)***Class Hours: 18 Lecture**P/NP**Corequisite(s): MATH 010A*

Structure & Concepts in Math I Support

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

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

Quantitative Analysis Support

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

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

ESL for College and Work

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

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

Intermediate Reading, Writing & Speaking

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

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

Advanced Reading, Writing & Speaking

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

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

Advanced Communication Skills for Life And Career

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

- NC 162** **High School equivalency (HSE)** (N/A)
Class Hours: 54 Lecture | 108 Laboratory P/NP
High School Equivalency (HSE) Preparation
NC 162 prepares individuals with the skills and knowledge base necessary to pass the HSE exam. Students review the examination content areas (language arts - reading and writing, mathematics, social studies, and science) with particular emphasis on writing and math. Instructors will assess individual skill levels to help the student focus on tutoring weaknesses into strengths.
- NC 180** **Survey of Unmanned Aerial Syst** (N/A)
Class Hours: 18 Lecture P/NP
Survey of Unmanned Aerial Systems
NC 180 is an introduction to unmanned aerial systems (UAS) for students that want to learn more about regulations for UAS, applications of UAS; and flight procedures. These topics are designed to provide familiarity with terminology, value of UAS in business, and use of UAS for imagery and data collection. This course is a precursor to a series of credit courses on liability issues, flight techniques, and passing the Part 107 certification test.
- NC 182** **Understanding Flow and Pressure** (N/A)
Class Hours: 18 Laboratory P/NP
Understanding Flow and Pressure
NC 182 provides students with the training and skills to perform maintenance tasks for irrigation lines and pumping systems. Fundamental knowledge of irrigation system types, parts, functions, and purposes will also be covered.
- NC 183** **Use of Fld Moble Computng Dev** (N/A)
Class Hours: 16 Laboratory P/NP
Use of Field Mobile Computing Devices
NC 183 provides computer literacy for the technician working with field tablets, handheld computers, or mobile devices, in irrigation, pest management, agriculture production, animal science, precision agriculture, or industrial technical areas. The course focuses on advanced settings and functions usually found within mobile devices including GPS, inertial measurement units, temperature or other data collection sensors, and the apps that utilize them.
- NC 184** **Maintnce of Ag Irrigition Filtr** (N/A)
Class Hours: 18 Laboratory P/NP
Maintenance of Agriculture Irrigation Filter Systems
NC 184 provides students with the basic skills to determine the proper maintenance tasks for common agriculture irrigation filtering systems, complete those tasks, and evaluate the proper operation of a filtering system. Fundamental knowledge of filter system types, parts, functions, and purposes will also be covered.
- NC 185A** **Installing Field Sensors** (N/A)
Class Hours: 8 Lecture | 8 Laboratory P/NP
Installing Field Sensors Filter Systems
NC 185A provides students with the knowledge and skills to install in-field sensors including: volumetric water content and soil tension moisture sensors, and pressure transducers for irrigation lines. Best practices for installation will be discussed and demonstrated in the field. In addition the value of other sensors such as sap flow, surface renewal, and flowmeters will be discussed.
- NC 185B** **Installing Automtc Irrig Snrs** (N/A)
Class Hours: 4 Lecture | 10 Laboratory P/NP
Installing Automated Irrigation Systems Filter Systems
NC 185B provides an understanding of how automated irrigation operates and the knowledge and skills to install an automated irrigation system in the field. Two different automated systems will be used as examples to identify components, select and install correct configuration based on a systems design, check for correct connections, and complete mounting in the field.
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NC 185C Scheduling Automated Irrigatio **(N/A)**
Class Hours: 9 Lecture | 9 Laboratory *P/NP*

Scheduling Automated Irrigation Systems Filter Systems

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

NC 186 Maintenance of Irrigation Pump (Effective Spring 2025) **(N/A)**
Class Hours: 18 Lecture *P/NP*

Maintenance of Irrigation Pumping and Delivery (Effective Spring 2025)

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

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

Agriculture Technical Literacy

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

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

Agricultural Systems

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

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

Agricultural Safety

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

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

Equipment Operation, Configuration, & Troubleshooting

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

NC 195 Workplace Effectiveness

(N/A)

Class Hours: 36 Lecture

P/NP

Workplace Effectiveness

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

Nutrition (NUT)**NUT 001 Basic Nutrition**

(3)

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

Basic Nutrition

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

Performing Arts (PA)**PA 003 Film Appreciation**

(3)

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

Film Appreciation

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

PA 022 Theater Workshop

(4)

*Class Hours: 36 Lecture | 108 Laboratory**Transfers to: UC/CSU*

Theater Workshop

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

PA 023 Chicano Theater

(3)

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

Chicano Theater

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

PA 025 Theater Dance

(1)

*Class Hours: 9 Lecture | 27 Laboratory**Transfers to: UC/CSU*

Theater Dance

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

Philosophy (PHIL)

PHIL 001 Introduction to Philosophy (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A or ESL 001

Transfers to: UC/CSU

C-ID: PHIL 100

Introduction to Philosophy

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

PHIL 002 Introduction to Logic (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 001A or ESL 001

Transfers to: UC/CSU

C-ID: PHIL 110

Introduction to Logic

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

PHIL 003 Introduction to Ethics (3)

Class Hours: 54 Lecture

Advisory(s): ENG 001A or ESL 001

Transfers to: UC/CSU

C-ID: PHIL 120

Introduction to Ethics

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

Physical Education (PE)

PE 003 Badminton (1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

Badminton

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

PE 006 Body Conditioning (1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

Body Conditioning

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

PE 011 Golf (1)*Class Hours: 54 Laboratory**Transfers to: UC/CSU*

Golf

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

PE 016 Jogging and Power Walking (1)*Class Hours: 54 Laboratory**Transfers to: UC/CSU*

Jogging and Power Walking

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**Transfers to: UC/CSU*

Adaptive Physical Education

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

PE 020 Tennis (1)*Class Hours: 54 Laboratory**Transfers to: UC/CSU*

Tennis

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

PE 021A Introductory Fitness Lab (1)*Class Hours: 54 Laboratory**Transfers to: UC/CSU*

Introductory Fitness Lab

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**Prerequisite(s): PE 021A**Transfers to: UC/CSU*

Beginning Fitness Lab

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

PE 021C Intermediate Fitness Lab (1)

Class Hours: 54 Laboratory

Prerequisite(s): PE 021B

Transfers to: UC/CSU

Intermediate Fitness Lab

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

PE 021D Advanced Fitness Lab (1)

Class Hours: 54 Laboratory

Prerequisite(s): PE 021C

Transfers to: UC/CSU

Advanced Fitness Lab

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

PE 022A Beginning Volleyball (1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

Beginning Volleyball

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

PE 022B Intermediate Volleyball (1)

Class Hours: 54 Laboratory

Prerequisite(s): PE 022A

Transfers to: UC/CSU

Intermediate Volleyball

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

PE 022C Advanced Volleyball (1)

Class Hours: 54 Laboratory

Prerequisite(s): PE 022B

Transfers to: UC/CSU

Advanced Volleyball

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

PE 022D Master Volleyball (1)

Class Hours: 54 Laboratory

Prerequisite(s): PE 022C

Transfers to: UC/CSU

Master Volleyball

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

PE 023 Weight Training (1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

Weight Training

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

PE 024 Circuit Training (0.5 - 1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

Circuit Training

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

PE 025A Introductory Soccer (1)

Class Hours: 9 Lecture | 27 Laboratory

Transfers to: UC/CSU

Introductory Soccer

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

PE 032A Beginning Basketball (1)

Class Hours: 54 Laboratory

Transfers to: UC/CSU

Beginning Basketball

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

Physical Science (PHYSICI)

PHYSICI 002 Chemistry & Physics for Educat (4)

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): MATH 064 or MATH 063

Transfers to: UC/CSU

C-ID: CHEM/PHYS 140

Chemistry and Physics for Educators

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

Physics (PHYSICS)

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

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): MATH 063 or MATH 064

Transfers to: UC/CSU

C-ID: PHYS 105/100S

Mechanics and Thermodynamics

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

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

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): PHYSICS 002A

Transfers to: UC/CSU

C-ID: PHYS 110 & 100S

Electricity, Magnetism, Optics and Modern Physics

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

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

Class Hours: 54 Lecture | 54 Laboratory

Corequisite(s): MATH 001A

Transfers to: UC/CSU

C-ID: PHYS 205/200S

Classical Mechanics

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

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

Class Hours: 54 Lecture | 54 Laboratory

Prerequisite(s): PHYSICS 004A

Co-Requisite(s): MATH 001B

Transfers to: UC/CSU

C-ID: PHYS 210

Electricity, Magnetism, and Waves

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

PHYSICS 004C Thermodynamics, Optics, Modern Physics

(4)

*Class Hours: 54 Lecture | 54 Laboratory**Prerequisite(s): PHYSICS 004B and MATH-001B**Advisory(s): MATH 002A**Transfers to: UC/CSU**C-ID: PHYS 215/200S*

Thermodynamics, Optics, and Modern Physics

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

Political Science (POLSCI)**POLSCI 001 American Government**

(3)

*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: POLS 110*

American Government

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*

Comparative Government

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

POLSCI 004 Intro to International Relations

(3)

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

Introduction to International Relations

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 Intro. to Political Theory

(3)

*Class Hours: 54 Lecture**Transfers to: UC/CSU**C-ID: POLS 120*

Introduction to Political Theory

POLSCI 005 will examine the various theoretical approaches to politics and basic political problems and proposed solutions: Analysis of selected political theories, relevance of theory to contemporary problems, and new approaches to political thought.

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- PT 052 Medical Surgical Nursing (4.5)**
Class Hours: 81 Lecture
Corequisite(s): PT 052L
Medical Surgical Nursing
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 Nurs Clinical (3)**
Class Hours: 162 Laboratory
Corequisite(s): PT 052
Medical Surgical Nursing Clinical
PT 052L will allow the application of intermediate and advanced nursing care skills in developing the role and responsibilities of the professional nurse/psychiatric technician. Students will learn medical/surgical nursing skills using a body-systems approach, and provide hands-on patient care at community based clinical sites.
- PT 060 Lifespan for Nurses (2)**
Class Hours: 36 Lecture
Advisory(s): ENG 051A
Lifespan for Nurses
PT 060 will present an overview of basic human development from gestation through adult necessary to provide psychiatric technician students with the foundational understanding of growth and development during the human life span.
- PT 061 Intro to Developmental Disab. (5)**
Class Hours: 90 Lecture
Prerequisite(s): PT 052 and PT 060
Corequisite(s): PT 061L
Introduction to Developmental Disabilities
PT 061 examines the care of individuals with intellectual and developmental disabilities within the framework of residential care and treatment facilities. Students will learn strategies and concepts that build upon basic nursing skills in the management and care of this special population.
- PT 061L Intro to Developmental Disabil (3)**
Class Hours: 162 Laboratory
Corequisite(s): PT 061
Introduction to Developmental Disabilities Clinical
PT 061L will provide students the opportunity to apply foundational principals in the care of clients with developmental and intellectual disabilities. Students will be required to travel to community sites and follow policy and procedures according to industry standards.
- PT 062 Developmental Disabilities (4.5)**
Class Hours: 81 Lecture
Prerequisite(s): PT 061
Corequisite(s): PT 062L
Developmental Disabilities
PT 062 examines the care of individuals with intellectual and developmental disabilities originating from genetic and gestational factors. Students will also be presented with the history and use of applied behavior analysis and behavior modifications strategies.
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PT 062L Developmntl Disablties Cincial (3)

Class Hours: 162 Laboratory

Corequisite(s): PT 062

Developmental Disabilities Clinical

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

PT 070 Psychology for Nurses (2)

Class Hours: 36 Lecture

Psychology for Nurses

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

PT 071 Intro to Mental Disorders (5)

Class Hours: 90 Lecture

Prerequisite(s): PT 062 and PT 070

Corequisite(s): PT 071L

Introduction to Mental Disorders

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

PT 071L Intro to Mental Disorders Clin (3)

Class Hours: 162 Laboratory

Corequisite(s): PT 071

Introduction to Mental Disorders Clinical

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

PT 072 Mental Disorders (4.5)

Class Hours: 81 Lecture

Prerequisite(s): PT 071

Corequisite(s): PT 072L

Mental Disorders

PT 072 will be an in depth study of psychological and mental health concepts as they relate to the professional psychiatric technician. 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

Mental Disorders Clinical

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

PT 081 Pharmacology 1 (1)

Class Hours: 18 Lecture

Advisory(s): HS 005

Pharmacology 1

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

PT 082 Pharmacology 2 (1)

Class Hours: 18 Lecture

Prerequisite(s): PT 081

Pharmacology 2

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

PT 083 Pharmacology 3 (1)

Class Hours: 18 Lecture

Prerequisite(s): PT 082

Pharmacology 3

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

Psychology (PSYCH)

PSYCH 001 Introductory Psychology (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: PSY 110

Introductory Psychology

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

Abnormal Psychology

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

PSYCH 003 Developmental Psychology (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: PSY 180

P/NP

Developmental Psychology

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

PSYCH 004 Personal Psychology (3)

Class Hours: 54 Lecture

Prerequisite(s): ENG 051A

Transfers to: UC/CSU

C-ID: PSY 115

Personal Psychology

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

PSYCH 005 Biological Psychology (3)

Class Hours: 54 Lecture

Prerequisite(s): PSYCH 001

Transfers to: UC/CSU

C-ID: PSY 150

Biological Psychology

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

PSYCH 006 Research Methods in Psychology (3)

Class Hours: 54 Lecture

Prerequisites(s): PSYCH 001

Prerequisites(s): MATH 025

Transfers to: UC/CSU

C-ID: PSY200

Research Methods in Psychology

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

PSYCH 029 Introductio to Sport & Exercis (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

Introduction to Sport & Exercise Psychology

PSYCH 029 is the study and application of psychological and foundations to sport and exercise across the lifespan and across activity contexts. This course is designed to promote an understanding of the concepts and applied principles of sport and exercise psychology. Findings and principles from the sport and exercise psychology literature will be applied to sport and physical activity participants, ranging from youth sport and community exercise programs to elite and world class performers.

Social Work (SW)

SW 020 Intro to Social Work & Human S (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: SWHS-110

Introduction to Social Work and Human Services

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

Sociology (SOC)

SOC 001 Introduction to Sociology (3)

Class Hours: 54 Lecture

Advisory(s): ENG 051A

Transfers to: UC/CSU

C-ID: SOCI 110

Introduction to Sociology

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

SOC 002 Critical Thinking/Social Prob (3)*Class Hours: 54 Lecture**Prerequisite(s): ENG 051A**Transfers to: UC/CSU**C-ID: SOCI 115*

Critical Thinking and Social Problems

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

SOC 003 Marriage and Family Relations (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: SOCI 130*

Marriage and Family Relations

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

SOC 005 Cultural Sociology (3)*Class Hours: 54 Lecture**Advisory(s): ENG 051A**Transfers to: UC/CSU**C-ID: SOCI 150*

Cultural Sociology

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

Soil Science (SLSCI)**SLSCI 021 Introduction to Soil Science (4)***Class Hours: 54 Lecture | 54 Laboratory**Transfers to: UC/CSU**C-ID: AG-PS 128 128L**P/NP*

Introduction to Soil Science

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

Spanish (SPAN)**SPAN 001 Elementary Spanish I (4)***Class Hours: 72 Lecture**Transfers to: UC/CSU**C-ID: SPAN 100**P/NP*

Elementary Spanish I

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

SPAN 002 Elementary Spanish II (4)

Class Hours: 72 Lecture

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

Transfers to: UC/CSU

C-ID: SPAN 110

Elementary Spanish II

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

SPAN 003 Intermediate Spanish I (4)

Class Hours: 72 Lecture

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

Transfers to: UC/CSU

C-ID: SPAN 200

Intermediate Spanish I

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

SPAN 004 Intermediate Spanish II (4)

Class Hours: 72 Lecture

Prerequisite(s): SPAN 003 or Three years high school Spanish

Transfers to: UC/CSU

C-ID: SPAN 210

Intermediate Spanish II

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

Student Development (STUDEV)**STUDEV 001 College Success (3)**

Class Hours: 54 Lecture

Transfers to: UC/CSU

P/NP

College Success

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

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

Career Planning

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

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

Ensuring Transfer Success

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

Vocational Nursing and Psych T (VNPT)

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

Math for Medical Professions

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

Welding Technology (WT)

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

Occupational Work Experience

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

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- WT 070 Introduction to Certified Weld (2.5)**
Class Hours: 36 Lecture | 27 Laboratory
Introduction to Certified Welding
WT 070 is the introductory course for the certified welding program designed as an introduction for the entry level welder. Topics include practical and theoretical instruction in welding safety, oxyfuel cutting, plasma arc cutting, air carbon cutting and gouging, base metal preparation and weld quality.
- WT 071 Beginning SMAW (3)**
Class Hours: 18 Lecture | 108 Laboratory
Beginning SMAW
WT 071 is an introduction to shielded metal arc welding (SMAW). Topics include practical and theoretical training in SMAW equipment and setup; shielded metal arc electrodes; SMAW beads and fillet welds and joint fit-up and alignment.
- WT 072 Advanced SMAW (3)**
Class Hours: 18 Lecture | 108 Laboratory
Advisory(s): WT 071
Advanced SMAW
WT 072 is the study and application of advanced shielded metal arc welding (SMAW). This course consists of practical and theoretical training intended to build upon basic SMAW skills including groove welds and backing. Topics also include V-groove and open root V-groove welds for the following positions: flat, horizontal, vertical and overhead.
- WT 073 Intro to Metallurgy & Weld Sym (1.5)**
Class Hours: 27 Lecture
Advisory(s): WT 072
Introduction to Metallurgy and Weld Symbols
WT 073 is an introduction to metallurgy and common weld symbols used for certified welders. Topics include theoretical instruction in reading welding symbols and welding detail drawings, physical characteristics and mechanical properties and preheating and post-heating of metals.
- WT 074 GMAW and FCAW:Plate (3)**
Class Hours: 18 Lecture | 108 Laboratory
Advisory(s): WT 073
GMAW and FCAW: Plate
WT 074 consists of practical and theoretical training in gas metal arc welding (GMAW) and flux cored arc welding (FCAW). Topics include equipment and filler metals as well as plate in the 1G (flat), 2G (horizontal), 3G (vertical) and 4G (overhead) positions.
- WT 075 SMAW Pipe Welding (2)**
Class Hours: 108 Laboratory
Advisory(s): WT 074
SMAW Pipe Welding
WT 075 consists of practical training on the setup of SMAW equipment for open-root V-groove welds. Students will learn procedures for making open-root V-groove welds with SMAW equipment on carbon-steel pipe in the 1G-rotated, 2G, 5G and 6G positions.
- WT 076 Welding Cert Preparati (0.5)**
Class Hours: 27 Laboratory
Welding Certification Preparation
WT 076 prepares the student to take a welding certification test in the various processes, procedures and standards established by the American Welding Society (AWS).
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