

CREDIT COURSES

AMERICAN SIGN LANGUAGE (A S L)

A S L 001 AMERICAN SIGN LANGUAGE I

4 Units (Lec 4 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC

Elementary course for students without prior exposure to American Sign Language. Develops comprehension, communication, and grammatical/lexical skills in American Sign Language at the ACTFL Proficiency Novice-Mid Level, and introduces Deaf culture and community.

A S L 002 AMERICAN SIGN LANGUAGE II

4 Units (Lec 4 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A)
Prerequisite: ASL 001

Continues the development of comprehension, communication, and grammatical/lexical skills in American Sign Language at the ACTFL Proficiency Novice-High Level, and furthers understanding of Deaf culture and community.

A S L 003 AMERICAN SIGN LANGUAGE III

4 Units (Lec 4 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)
Prerequisite: ASL 002

Development of intermediate American Sign Language in comprehension, communication, and grammatical/lexical skills at the ACTFL Proficiency Intermediate-Mid Level, and practice interpreting Deaf culture and community.

A S L 025 CONVERSATIONAL AMERICAN SIGN LANGUAGE

2 Units (Lec 2 Hrs)
Transfer Credit: CSU
Prerequisite: ASL 002

Provides opportunities for practical conversation at the ACTFL Proficiency Intermediate-Low Level on everyday topics, cultural material, and expansion of vocabulary according to student interest or need.

A S L 030 FINGERSPELLING I

1 Units (Lec 1 Hrs)
Transfer Credit: CSU
Prerequisite: ASL 002

Develops basic skills in receptive and expressive fingerspelling. Overview of topics include hand positioning, hand shape, fluency, and numbers. Strongly recommended for prospective teachers, interpreters, and other professionals working with deaf people. Course taught in American Sign Language.

A S L 040 INTRODUCTION TO DEAF CULTURE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)

Focuses on the cultural, historical, philosophical, educational, psychological, and social aspects of the deaf and hard of hearing. No knowledge of American Sign Language is required.

ACCOUNTING (ACCTG)

ACCTG 001 INTRODUCTORY ACCOUNTING I

5 Units (Lec 5 Hrs)
Transfer Credit: CSU, UC, C-ID (ACCT 110)

Students learn fundamental accounting principles and concepts. This 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, applications of generally accepted accounting principles, financial statements, and financial statements analysis. Includes issues relating to assets, liabilities, equity valuation, revenue and expense recognition, cash flows, internal controls, and ethics. Note: ACCTG 021 (3 units) and ACCTG 022 (3 units), when taken together, are equivalent to ACCTG 001 (5 units).

ACCTG 002 INTRODUCTORY ACCOUNTING II

5 Units (Lec 5 Hrs)
Transfer Credit: CSU, UC, C-ID (ACCT 120)
Prerequisite: ACCTG 001, ACCTG 022

Students learn how managers use accounting information in decision-making, planning, directing operations, and controlling. Focuses on cost terms and concepts, cost behavior, cost structure, and cost-volume-profit-analysis. Includes issues relating to cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments.

ACCTG 015 TAX ACCOUNTING I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn to prepare Federal and California income tax returns for individuals. Topics include overview, gross income, exemptions, deductions, tax credits, self-employment tax returns, and rental property transactions. This course can be utilized to meet part of the basic qualification for registering as a tax preparer and the continuing education requirement of the California Tax Preparer Act.

ACCTG 016 TAX ACCOUNTING II

3 Units (Lec 3 Hrs)
Transfer Credit: CSU
Advisory: ACCTG 015

In this course, students continue the study of Federal income taxes and the analysis of laws, as well as consideration of appropriate accounting procedures and preparation of reports and returns as they apply to partnerships, limited liability companies, corporations, and S corporations.

ACCTG 017 PAYROLL ACCOUNTING

Units (Lec 2 Hrs)
Transfer Credit: CSU

Students learn the procedures and practices involved in a firm's payroll system, including familiarizing students with current laws regarding computation of regular and overtime pay, withholding of payroll taxes, computation of employer's payroll taxes, and the preparation of payroll tax returns and reports.

ACCTG 019 ETHICS FOR ACCOUNTING PROFESSIONALS

Units (Lec 3 Hrs)
Transfer Credit: CSU

This course is a survey and study of ethics in business and accounting areas including the study of moral values, personal integrity, professional accountability, business legitimacy, equity, and fairness. This course also includes the study of the Sarbanes-Oxley Act, codes of conduct, Circular 230, and case analysis.

ACCTG 021 BOOKKEEPING AND ACCOUNTING I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC

Students learn fundamentals of double-entry accounting, the accounting cycle, the preparation of the trial balance, financial statements, accounting for merchandise businesses, cash transactions, and special journals. Note: ACCTG 021 (3 units) and ACCTG 022 (3 units), when taken together, are equivalent to ACCTG 001 (5 units).

ACCTG 022 BOOKKEEPING AND ACCOUNTING II

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: ACCTG 021

Students learn accounting for receivables, payables, bad debts, deferrals and accruals, merchandise inventories, plant and equipment, accounting for partnerships and corporations, cash flow statements, and comparative financial statement analysis. Note: ACCTG 021 (3 units) and ACCTG 022 (3 units), when taken together, are equivalent to ACCTG 001 (5 units).

ACCTG 023 RECORDKEEPING FOR SMALL BUSINESS

3 Units (Lec 3 Hrs)

Students learn the cash basis concept of accounting and small business computerized accounting software using QuickBooks. Students will complete simulated accounting projects designed for different types of small business firms using both manual and automated systems.

ACCTG 027 AUTOMATED ACCOUNTING METHODS AND PROCEDURES II

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Students use computer applications in the preparation of special journals, payroll register, bank reconciliation, aging accounts receivable, inventory costing and depreciation, and analysis of financial statements.

ACCTG 031 MATHEMATICS OF ACCOUNTING

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn the mathematical fundamentals of bank reconciliation, payroll computations, depreciation and allocation of overhead, trade and cash discounts, and other accounting-related math subjects.

ACCTG 055 ACCOUNTING COMPUTER LABORATORY

1 Units (Lab 2 Hrs)

Students learn to use the spreadsheet software Microsoft Excel for solving accounting problems and concepts being studied in other accounting classes.

ADDICTION STUDIES (ADDICST)**ADDICST 001 UNDERSTANDING ADDICTION AND COUNSELING**

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

This course is an introductory survey on alcohol and drug use and abuse. The history, classification, impact, and treatment of psychoactive drugs and addiction are covered. Public policies and social attitudes on alcohol and drug abuse, as well as mental health and drugs, are also examined.

ADDICST 007 ADDICTION TREATMENT AND RECOVERY

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

This course addresses intervention, treatment, and recovery issues in chemical dependency. Topics include approaches to intervention, obstacles to intervention, and stages of formal intervention. The medical, behavioral, social, and family systems models of treatment, as well as various approaches to treatment, are also discussed.

ADDICST 022 PREVENTION SPECIALIST TRAINING

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

This course addresses strategies used to prevent alcohol and drug problems in different settings, including industry, school, family, and community and rehabilitation centers.

ADDICST 063 PREVENTION AND EDUCATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn the strategies of prevention and education necessary to work with various populations dealing with alcohol, drug, and STI (sexually transmitted infection) related problems.

ADDICST 067 COUNSELING TECHNIQUES FOR THE CHEMICALLY ADDICTED

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students will learn the environment of chemical dependency counseling and the issues of the paraprofessional in alcohol and drug abuse treatment facilities. Case management in a multi-discipline team will be emphasized. All aspects of modern treatment techniques will be covered in class.

ADDICST 084 FIELD WORK PRACTICUM

3 Units (Lec 1 Hrs / Lab 6 Hrs)

Transfer Credit: CSU
Prerequisite: PSYCH 001, PSYCH 043
Corequisite: PSYCH 001, PSYCH 043

(Formerly PSYCH 084) This is a supervised practicum course. Participants must be knowledgeable about addiction and treatment. The course provides observation, interaction, and counseling opportunities with clients and counselors at rehabilitation clinics. This course satisfies half of the fieldwork hours (125) required by CAAD in addition to the classroom hours.

ADDICST 085 ADVANCED FIELD WORK PRACTICUM

3 Units (Lec 1 Hrs / Lab 6 Hrs)

Transfer Credit: CSU
Prerequisite: ADDICST 084

Students build on the skills they learned in Field Work I by participating, under supervision, at various facilities in the community that offer drug and alcohol treatment programs. Students will achieve intermediate counseling and communication skills

and be able to apply these skills in diverse drug and alcohol treatment settings. Students continue to develop their knowledge of the 12 core functions of drug and alcohol treatment, and apply these skills at an intermediate level in drug and alcohol treatment programs. Fieldwork internships at drug and alcohol treatment programs are required.

ADDICST 086 ADVANCED FIELD WORK PRACTICUM (III)
3 Units (Lec 1 Hrs / Lab 6 Hrs)

Students learn more specialized skills in Human Services. This class is intended for the advanced student of the drug/alcohol option of Human Services. Students build on the skills they learned in Field Work I and Field Work II by participating, under supervision, at various facilities in the community that offer drug and alcohol treatment programs. Students will achieve advanced counseling and communication skills and be able to apply those skills in diverse drug and alcohol treatment programs. Students continue to develop their knowledge of the 12 core functions of the human services career, and apply those skills at an advanced level, in diverse drug and alcohol treatment programs. Fieldwork internships at drug and alcohol treatment programs are required.

ADMINISTRATION OF JUSTICE (ADM JUS)

**ADM JUS 001 INTRODUCTION TO
ADMINISTRATION OF JUSTICE**

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC, C-ID (AJ 110)

Students will be introduced 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 are examined in a cross-cultural context, emphasis is placed on the U.S. justice system, particularly the structure and function of U.S. police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies.

ADM JUS 002 CONCEPTS OF CRIMINAL LAW
3 Units (Lec 3 Hrs)

Transfer Credit: CSU, UC, C-ID (AJ 120)

Students learn 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.

ADM JUS 003 LEGAL ASPECTS OF EVIDENCE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, C-ID (AJ 124)

Students learn the categories of evidence and legal rules governing its admission and exclusion in the criminal process.

**ADM JUS 004 PRINCIPLES AND PROCEDURES
OF THE JUSTICE SYSTEM**

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, C-ID (AJ 122)

Students learn, through examination and analysis, due process in criminal proceedings from pre-arrest through trial and appeal utilizing statutory law and state and constitutional law precedents.

ADM JUS 005 CRIMINAL INVESTIGATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, C-ID (AJ 140)

Students learn 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.

ADM JUS 008 JUVENILE PROCEDURES

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, C-ID (AJ 220)
Advisory: ENGLISH 101

Students learn about the origin, development, and organization of the juvenile justice system as it evolved in the American justice system. The course explores the theories that focuses on juvenile law, courts and processes, and the constitutional protections extended to juveniles administered in the American justice system.

ADM JUS 016 RECRUITMENT SELECTION PROCESS

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn of the selection process for employment with an agency in the criminal justice system. Topics will include a review of the minimum qualifications for employment as a peace officer as determined by the Commission on Peace Officer Standards and Training (POST) and/or Standards and Training for Corrections (STC). Specific topics will include the application, written examination, oral interview, background investigation, psychology exam, medical exam, polygraph exam, and physical fitness testing. Employment opportunities will be presented.

ADM JUS 053 FORENSIC FINGERPRINT EVIDENCE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn the history of fingerprinting, fingerprint pattern types and classification, the searching and referencing of fingerprints, techniques for taking good fingerprints, the problems in taking inked fingerprints, the proper procedure for taking major case prints, and the preparation of fingerprint charts for court testimony.

ADM JUS 062 FINGERPRINT CLASSIFICATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

This course covers practical aspects of fingerprint classification. Technical terminology, pattern interpretation, classification of fingerprints, search for fingerprints at crime scenes, and the preservation of prints and print development are emphasized.

ADM JUS 067 COMMUNITY RELATIONS I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC, C-ID (AJ 160)

Students will learn 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.

ADM JUS 160 POLICE ORGANIZATION AND ADMINISTRATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students will learn to analyze the concept of police organizations and management styles, addressing the roles and responsibilities of law enforcement agencies.

ADM JUS 180 INTRODUCTION TO FORENSICS

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, C-ID (AJ 150)

Students learn the role of forensics in criminal investigations. The course examines the methods utilized in the forensic analysis of crime scenes, pattern evidence, instruments, firearms, questioned documents, and controlled substances.

AFRICAN AMERICAN STUDIES (AFRO AM)

AFRO AM 004 THE AFRICAN AMERICAN IN THE HISTORY OF THE U.S. I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area D, US1), UC (IGETC Area 4)
Advisory: ENGLISH 028, ENGLISH 067

Students analyze historiographical issues in African American history and how black Americans were active agents in creating their own history. Emphasis on the African background of African Americans, the institution of slavery, the development of the African American community institutions, and African American participation in and impact on the Civil War and Reconstruction.

AFRO AM 005 THE AFRICAN AMERICAN IN THE HISTORY OF THE U.S. II

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area D, US1), UC (IGETC Area 4)
Advisory: ENGLISH 028, ENGLISH 067

Students analyze historiographical issues in African American history and how black Americans were active agents in creating their own history. Emphasis on ideas of black social thought, political protest, and efforts to create social change from Reconstruction to the present.

AFRO AM 007 BLACK AMERICANS AND THE POLITICAL SYSTEM

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area D, US2,US3), UC (IGETC Area 4)
Advisory: ENGLISH 028, ENGLISH 067

Students analyze the relationship of minority groups to American politics with emphasis on African Americans in the political system.

AFRO AM 020 AFRICAN-AMERICAN LITERATURE I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)
Advisory: ENGLISH 028, ENGLISH 067

Students survey African American writers, covering all types of literatures (slave narrative, poetry, novels) to develop a positive attitude towards reading and understanding the progression of American culture as interpreted by African American writers.

AFRO AM 060 AFRICAN-AMERICAN MUSIC

Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)

A study of African and African-American music and their influence on folk, spirituals, gospels, concert music, opera, ballet, blues, and jazz underscoring styles, characteristics, origin, and contributions by African-American artists. (Credit allowed for only one of AFRO AM 060 or MUSIC 135.)

ANATOMY (ANATOMY)

ANATOMY 001 INTRODUCTION TO HUMAN ANATOMY

Units (Lec 3 Hrs / Lab 3 Hrs)
Transfer Credit: CSU (CSUGE Area B2,B3), UC (IGETC Area 5B,5C),
C-ID (BIOL 110 B)
Advisory: ENGLISH 101

This course covers the structural organization of the human body, including 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.

ANIMATION (ANIMATN)

ANIMATN 118 HISTORY OF ANIMATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

This course is a historical survey of international cinema animation. Topics include the personalities and techniques of animators as well as the societal, political, and economic forces that shaped this art form, and the historical and cultural contexts of animation.

ANTHROPOLOGY (ANTHRO)

ANTHRO 101 HUMAN BIOLOGICAL EVOLUTION

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B2), UC (IGETC Area 5B), C-ID (ANTH 110)

Advisory: ENGLISH 028, ENGLISH 067

Students will examine evolutionary theory, human genetics, primate ecology and behavior, the hominid fossil record, and modern human variation. Students will be able to underline the historical path to natural selection, describe the five factors of the evolutionary process, identify biological characteristics of primates, discuss features of primate behavior, diagram the origin of mankind through comparing skulls from the hominid fossil record, and interpret modern human variation.

ANTHRO 102 HUMAN WAYS OF LIFE: CULTURAL ANTHROPOLOGY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (ANTH 120)

Advisory: ENGLISH 028, ENGLISH 067

Students are introduced to the field of socio-cultural anthropology and will examine the diversity of human life around the world. Topics covered include the culture concept, ethnography, language, kinship, gender, religion, political and economic organization, globalization, and culture change. The objectives of this course are (1) to employ a relative perspective in the appreciation of the world's cultural diversity, and (2) to apply case studies to describe this variation.

ANTHRO 121 ANTHROPOLOGY OF RELIGION, MAGIC AND WITCHCRAFT

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4)

Students learn about the origins and varieties of religious beliefs and practices by exploring the biological and cultural dimensions of religion, as well as the evolutionary origins of religious features. Topics include consciousness, mythology, symbolism, shamanism, traditional healing, altered states, magic, divination, witchcraft, and the question of cults.

ANTHRO 151 VISUAL ANTHROPOLOGY: EXPLORING CULTURE THROUGH FILM AND MIXED MEDIA

3 Units (Lec 3 Hrs / Lab 0.5 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4)

Advisory: PHOTO 007, CINEMA 002

Students survey and analyze the use of film and video in anthropological research, teaching, theory, and methodology. Films are studied for their anthropological content and as artifacts of Western culture, which reveal significant aspects of that culture. Students learn techniques in still photography and video production in the creation of a final visual product.

ANTHRO 385 DIRECTED STUDY - ANTHROPOLOGY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students pursue directed study in Anthropology on a contract basis under the direction of a supervising instructor.

ARMENIAN (ARMEN)

ARMEN 001 ELEMENTARY ARMENIAN I

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC

Elementary course for student without prior exposure to Armenian. Develops speaking, writing, listening, and reading skills in Armenian at the ACTFL Proficiency Novice-Mid Level, and introduces Armenian culture.

ARMEN 002 ELEMENTARY ARMENIAN II

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A)

Prerequisite: ARMEN 001

Continues the development of elementary speaking, writing, listening, and reading skills in Armenian at the ACTFL Proficiency Novice-High Level, and furthers understanding of Armenian culture.

ARMEN 035 ARMENIAN FOR ARMENIAN SPEAKERS I

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A)

Elementary course for bilingual students. Class conducted in Armenian. Students develop speaking, writing, listening, and reading skills in Armenian at the ACTFL Proficiency Novice-Mid Level, and are introduced to Armenian culture. Credit is given for either ARMEN 002 or ARMEN 035, but not for both.

ARMEN 036 ARMENIAN FOR ARMENIAN SPEAKERS II

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A)

Prerequisite: ARMEN 035 or ARMEN 002

Class conducted in Armenian. Continues the development of elementary speaking, writing, listening, and reading skills in Armenian for bilingual students at the ACTFL Proficiency Intermediate-Mid Level, and furthers understanding of Armenian culture. Class conducted in Armenian. Credit is given for either ARMEN 003 or ARMEN 036, but not for both.

ART (ART)

ART 185 DIRECTED STUDY - ART

1 Units (Lec 1 Hrs)

Transfer Credit: CSU

Students pursue on their own an in-depth study of a subject of special interest to them in studio art. Students work independently but consult with the instructor on a weekly basis to critique their work.

ART 201 DRAWING I

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU (CSUGE Area C1), UC

Students apply elements and principles of design to the practice of drawing, employing a wide range of subject matter, drawing techniques, and media. They develop observation-based and technical drawing skills and hone their creative responses to materials and subject matter.

ART 202 DRAWING II

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC, C-ID (ARTS 205)

Prerequisite: ART 201

Students explore artistic concepts, styles, and creative expression related to intermediate drawing, focusing on complex

subject matter and concepts using a variety of drawing media, techniques, and methodologies. Students further develop technical and observational skills introduced in Drawing I, while arriving at personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing.

ART 204 LIFE DRAWING I

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC, C-ID (ARTS 200)

Prerequisite: ART 201

Advisory: ART 501

Students draw the live model in various drawing media, employing foundational drawing principles and methods. They develop observation-based and technical drawing skills and hone their creative responses by drawing the human figure at the introductory level.

ART 205 LIFE DRAWING II

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 204

Students draw the live model in various drawing media, employing foundational drawing principles and methods. They develop observation-based and technical drawing skills and hone their creative responses by drawing the human figure at the intermediate level.

ART 206 LIFE DRAWING III

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 205

Students draw the live model in various drawing media at an advanced level, building upon techniques from ART 205. Different media, methods, and subject matter are employed to hone creativity and support the development of personal style.

ART 209 PERSPECTIVE DRAWING I

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU (CSUGE Area C1), UC

Advisory: ART 201

Students learn to draw three-dimensional objects in space using measured vanishing point systems along with direct observation and freehand drawing. These skills are applicable to the following fields: animation, storyboarding, illustration, entertainment design, and industrial design

ART 250 INTRODUCTION TO DIGITAL ART

3 Units (Lec 1 Hrs / Lab 5 Hrs)

Transfer Credit: CSU, UC, C-ID (ARTS 250)

Advisory: ART 501

Students are introduced to fundamental concepts, practices, and theories of digital art production. Topics include integration of traditional design, color, and compositional principles with contemporary digital tools.

ART 285 DIRECTED STUDY - ART

Units (Lec 2 Hrs)

Transfer Credit: CSU

Students pursue on their own an in-depth study of a subject of special interest to them in studio art. Students create art works of special interest to them under guidance of the instructor.

ART 300 INTRODUCTION TO PAINTING

Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC, C-ID (ARTS 210)

Prerequisite: ART 201

Advisory: ART 501

Students learn the principles, elements, and practices of painting. The course focuses on exploration of painting materials, perceptual skills and color theory, paint mixing, and technique, as well as creative responses to materials and subject matter.

ART 301 WATERCOLOR PAINTING I

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 300

Students expand their knowledge of painting, focusing on composition and color techniques in watercolor media while continuing to explore art concepts, content, and imagery as applied to personal expression.

ART 302 WATERCOLOR PAINTING II

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 301

Students apply advanced techniques and explore concepts in color, composition, and surfaces.

ART 304 ACRYLIC PAINTING I

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 201

Advisory: ART 501

Students learn a variety of techniques employing acrylic paints and related grounds and tools. A variety of subject matter is used to introduce a series of stylistic approaches.

ART 305 ACRYLIC PAINTING II

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 501, ART 300 or ART 304

Students learn to employ acrylic paints and related grounds and tools at an intermediate level, building upon techniques from ART 304. A variety of subject matter is used to support the development of stylistic approaches.

ART 306 ACRYLIC PAINTING III

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 305

Students learn to employ acrylic paints and related grounds and tools at an advanced level, building upon techniques from ART 305. A variety of subject matter is used to support the development of personal style.

ART 307 OIL PAINTING I

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 201

Advisory: ART 501

Students learn methods and techniques of painting using the medium of oil paint with its related grounds and tools. Different subjects are used to introduce a variety of stylistic approaches.

ART 308 OIL PAINTING II

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 501, ART 300 or ART 307

Students learn methods and techniques of painting using the medium of oil paint with its related grounds and tools at an

intermediate level, building upon techniques from ART 307. Different subjects are used to support the development of stylistic approaches.

ART 309 OIL PAINTING III

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 308

Students learn methods and techniques of painting using the medium of oil paint with its related grounds and tools at an advanced level, building upon techniques from ART 308. Different subjects are used to support the development of personal style.

ART 385 DIRECTED STUDY - ART

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students pursue directed study in studio art on a contract basis under the direction of a supervising instructor.

ART 400 INTRODUCTION TO PRINTMAKING

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 501 and ART 201

Students practice various forms of platemaking and printing. Emphasis will be placed on the development of visual ideas and printmaking techniques.

ART 401 ETCHING I

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 400

Students practice various forms of etching and printing. Emphasis will be placed on the development of visual ideas and etching techniques.

ART 402 ETCHING II

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 401

Students practice various forms of etching and printing. Emphasis will be placed on the development of visual ideas and advanced etching techniques.

ART 407 RELIEF PRINTMAKING I

3 Units (Lec 1 Hrs / Lab 5 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 402

Students practice various forms of platemaking and printing in the relief process. Emphasis will be placed on the development of visual ideas and relief printing techniques.

ART 501 BEGINNING TWO-DIMENSIONAL DESIGN

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU (CSUGE Area C1), UC, C-ID (ARTS 100)

Students learn concepts, applications, and historical references related to the creation of two-dimensional art and design, utilizing the basic visual elements and design principles in studio art projects, developing a visual vocabulary for analysis and creative expression. The course includes problem-solving studio projects, lectures, presentations, and written assignments. This course is a prerequisite for many courses in studio art and graphic design.

ART 502 BEGINNING THREE-DIMENSIONAL DESIGN

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC, C-ID (ARTS 101)

Advisory: ART 201, ART 501

Students explore concepts, applications, and historical references related to three-dimensional design and spatial composition.

ART 603 TYPOGRAPHY I

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Students are introduced to basic composition and principles of typography, which includes a survey of type from its origins to current uses for print, web, video, animation, and mobile. Using hand skills and the computer, students focus on typographic design, resonance, and composition and develop skills regarding visually interesting letter forms and their uses in typographic design with a focus on appropriate solutions, visual interest, and craftsmanship.

ART 604 GRAPHIC DESIGN I

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC, C-ID (ARTS 250)

Prerequisite: ART 250

Advisory: ART 501

Students learn the fundamentals of graphic design with an emphasis on typography, including its legacy, terminology, tools, and working methods. Emphasis is placed on computer layout skill building in Adobe Photoshop, Illustrator, and InDesign to creative effective visual communication.

ART 605 GRAPHIC DESIGN II

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: ART 501 and ART 604

Students continue their study of graphic communication with projects that introduce the interaction between designer, client, and audience. Continued emphasis on the computer as a tool with a focus on the integration of InDesign, Illustrator, and Photoshop.

ART 606 GRAPHIC DESIGN III

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: ART 605

Students apply more advanced graphic design principles using computer graphics. Emphasis is placed on the creation of a graphic design branding campaign. Students will create and refine industry standard branding elements and use them throughout the semester in various formats intended for print and social media.

ART 620 ILLUSTRATION I

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: ART 201

Advisory: ART 501

Drawing, rendering, and composition skills are extended to problems in commercial illustration and pictorial art for publications and advertising. Utilizes a variety of techniques and media.

ART 621 ILLUSTRATION II**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: ART 620**

A continuing study of contemporary illustration through a series of projects with a focus on non-traditional media. Additional emphasis is placed upon the individual needs and skills of each student. Preparing studies for client meetings is covered at the conclusion of the class.

**ART 634 COMPUTER GRAPHICS I:
3D COMPUTER GRAPHICS****3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Prerequisite: ART 250****Advisory: ART 501**

Students explore three-dimensional digital design techniques, concepts, and applications employed as tools in graphic design. Students focus on three-dimensional modeling and rendering techniques in the creation of objects and environments for graphics and multimedia.

**ART 636 COMPUTER GRAPHICS 2:
3D COMPUTER GRAPHICS****3 Units (Lec 2 Hrs / Lab 2 Hrs)****Prerequisite: ART 634**

Students create detailed three-dimensional objects and animations for games and animation projects; create advanced 3D models and textures; and render animated projects with advanced lighting, textures, and camera techniques. Introduces character rigging and concepts in character animation and motion capture.

ART 645 INTRODUCTION TO WEB SITE DESIGN**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Advisory: ART 250**

Students learn the basic concepts and techniques used in designing websites employing the principles of design, color theory, typography, and composition. Software includes, but is not limited to, the current versions of Adobe Dreamweaver and Photoshop. Topics include: design principles such as the grid, color, navigation, composition, and typography; user experience principles such as accessibility, audience analysis, site-maps, and responsive design; and technical aspects such as hosting, file management, FTP, HTML, and CSS.

ART 646 INTERMEDIATE WEB SITE DESIGN**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: ART 645**

This is an intermediate course that extends the skills, concepts, and practices developed in ART 645. The course focuses on the creation of database-driven responsive websites enriched with multimedia and animation. Students solve design problems, approach work using real-world production strategies, and produce data-rich interactive web experiences. The course is organized around the LAMP web service stack, and explores technologies that include, but are not limited to, HTML5, media production software, web animation software, project management systems, and database management software.

ART 648 ANIMATION--DIGITAL IMAGING**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Prerequisite: ART 250 or PHOTO 046**

This is an intermediate-level course dealing with motion graphics for animation using digital imaging and animation software, with an emphasis on programs such as Photoshop and After Effects, including layers, masks, filters, animation techniques, and output to video via demonstrations, practicums, and exercises.

ART 649 STORYBOARDS**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Advisory: ART 201, ART 209; ART 250 or PHOTO 046**

This course focuses on applying industry-standard storyboarding and scripting techniques to animation. Contents to be covered include the various purposes and formats of storyboards, the basic terminology and concepts used in storyboarding, working with scripts, and animation techniques using software. Research and previz are used to create a character, story, and animated video (animatic).

ART 700 INTRODUCTION TO SCULPTURE**3 Units (Lec 2 Hrs / Lab 4 Hrs)****Transfer Credit: CSU, UC****Prerequisite: ART 501 or ART 502****Advisory: ART 201**

Students practice three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices. Various sculpting methods are practiced with attention to creative self-expression and historical context.

ART 701 SCULPTURE I**3 Units (Lec 2 Hrs / Lab 4 Hrs)****Transfer Credit: CSU, UC****Prerequisite: ART 700**

Students practice various forms of sculpture including the armature. Emphasis will be placed on the development of visual ideas and sculptural techniques.

ART 702 SCULPTURE II**3 Units (Lec 2 Hrs / Lab 4 Hrs)****Transfer Credit: CSU, UC****Prerequisite: ART 701**

Students will be challenged with advanced problems in sculpture. Students will be encouraged to explore individual creativity, materials, and processes.

ART 708 INTRODUCTION TO CERAMICS**3 Units (Lec 2 Hrs / Lab 4 Hrs)****Transfer Credit: CSU, UC**

Students learn the different kinds of ceramic materials, concepts, and processes including basic design principles, creative development, hand-building, throwing, glaze techniques, firing, and ceramic terminology. Students explore the aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures.

ART 709 CERAMICS I**3 Units (Lec 2 Hrs / Lab 4 Hrs)****Transfer Credit: CSU, UC****Prerequisite: ART 708****Advisory: ART 502**

The student continues the study of ceramic processes of the physical and chemical characteristics of clay, with an emphasis placed on ceramic design and glaze chemistry.

ART 710 CERAMICS II**3 Units (Lec 1 Hrs / Lab 5 Hrs)****Transfer Credit: CSU, UC****Prerequisite: ART 709**

Students master technical and design skills through hand building, clay decoration, glazing and the potter's wheel, making ceramic molds, and slip casting.

ART 931 COOPERATIVE EDUCATION - ART**3 Units (RPT 3) (Lec 3 Hrs)****Transfer Credit: CSU**

Students receive credit for approved internships with an employer in the Design, Animation, or Visual Arts field. The site must be approved by the Department Chair and can be on and off campus.

ART HISTORY (ARTHIST)

ARTHIST 103 ART APPRECIATION I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A),****C-ID (ARTH 100)****Advisory: ENGLISH 101**

This introductory and integrative course in the arts offers a thematic approach to art appreciation through art examples from Western and non-Western cultures. The student learns about art forms and media in traditional and contemporary styles, including terminology and problems of definition, meaning, and evaluation in the visual arts.

ARTHIST 110 SURVEY OF WESTERN ART HISTORY I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A),****C-ID (ARTH 110)****Advisory: ENGLISH 101**

The student explores the development of art and architecture from prehistory through the medieval period, emphasizing the cultural context of the West and its major points of contact with the non-European world.

ARTHIST 120 SURVEY OF WESTERN ART HISTORY II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A),****C-ID (ARTH 120)****Advisory: ENGLISH 101**

Students learn about the development of art from the time of the Renaissance to Contemporary art. Emphasis is placed on the cultural context of the West while major points of artistic contact with the non-European world are considered. This course provides an overview of art and architecture from the Renaissance to the Contemporary.

ARTHIST 130 SURVEY OF ASIAN ART HISTORY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A),****C-ID (ARTH 130)****Advisory: ENGLISH 101**

The student learns about the development of Asian art from prehistoric times through the 20th Century including the artistic traditions and histories of China, India, Japan, Korea, and Southeast Asia. The student considers how cultural, political, and religious forces influenced the arts and explore how the various regions of Asia formed and influenced one another.

ARTHIST 139 INTRODUCTION TO ISLAMIC ART**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)****Advisory: ENGLISH 101**

The student examines the global historical development of Islamic visual art (including painting, sculpture, architecture, and other forms) and its historical and cultural context.

ARTHIST 140 SURVEY OF ARTS OF AFRICA, OCEANIA, AND ANCIENT AMERICA**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A),****C-ID (ARTH 140)****Advisory: ENGLISH 101**

Students learn about the visual culture within select regions in Africa, Oceania, and indigenous North America.

ARTHIST 151 INTRODUCTION TO LATIN AMERICAN ART**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)****Advisory: ENGLISH 101**

Students examine the art and architecture of Latin America, beginning with the Pre-Columbian period, but focused primarily on the 19th to 21st centuries. Students explore major historical periods of Latin American history and visual culture, which include an introduction to pre-Hispanic civilizations, colonial rule and independence, the emergence of Modernism and the avant-garde, and contemporary art and architecture in Latin America. They gain an understanding of underlying social, economic, political, and religious context of the production and use of the works of art considered.

ARTHIST 171 INTRODUCTION TO GLOBAL CONTEMPORARY ART**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)****Advisory: ENGLISH 101, ARTHIST 120 or ARTHIST 103**

Students learn about thematic and historical developments of Contemporary visual art (including painting, sculpture, architecture, new media, and other forms) produced by the global community.

ASTRONOMY (ASTRON)

ASTRON 001 ELEMENTARY ASTRONOMY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area B1), UC (IGETC Area 5A)****Advisory: ENGLISH 028, ENGLISH 067**

A fascinating look into the general principles and the fundamental facts of astronomy. This introductory course is designed for the non-technical student. Topics covered include the history and science of astronomy, the solar system, our sun,

stars, galaxies, and cosmology. No college math preparation is needed. If a student wishes to transfer this as a lab science course, the student must also complete ASTRON 005.

ASTRON 005 FUNDAMENTALS OF ASTRONOMY LABORATORY

1 Units (Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B3), UC (IGETC Area 5C)

Corequisite: ASTRON 001 or ASTRON 010 or ASTRON 011

Offers a presentation of the methods and techniques used by astronomers to determine the nature of the universe. This course uses some very basic mathematics and can be taken by non-science and/or science majors. When taken together with either ASTRON 001 or ASTRON 010 or ASTRON 011, a student's 'science with a lab' transfer and graduation requirement is met. Topics covered in ASTRON 005 include star names, asterisms and constellations, sky motion, planet motion, orbital motion, stellar brightness, stellar spectrum, crater formation, star clusters, galaxies, and deep sky objects. An important part of the course involves working with and learning the operation of astronomical instruments and equipment including celestial globes, astrolabes, azimuth sundials, astronomical binoculars, and computer-controlled telescopes.

ASTRON 011 STARS, GALAXIES, AND THE UNIVERSE

Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1), UC (IGETC Area 5A)

This conceptual course surveys the universe beyond the solar system. Students learn about stars, stellar evolution, black holes, galaxies, the big bang, cosmology, and the possibility of extraterrestrial life.

BIOLOGY (BIOLOGY)

BIOLOGY 003 INTRODUCTION TO BIOLOGY

Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B2,B3), UC (IGETC Area 5B,5C)

Advisory: ENGLISH 021

In this survey course for nonmajors, students learn general biological principles, activities, and the relationships of living organisms to each other and the world they live in with emphasis on their correlations to the human organism. The course includes a study of the nutritional, medical, and genetic aspects of the modern world.

BIOLOGY 006 GENERAL BIOLOGY I

Units (Lec 3 Hrs / Lab 6 Hrs)

Transfer Credit: CSU (CSUGE Area B2,B3), UC (IGETC Area 5B,5C),

C-ID (BIOL 135 S)

Prerequisite: MATH 125

Advisory: ENGLISH 021, ENGLISH 067 or E.S.L. 008

In this class designed for general biology majors and pre-professional students, students examine and learn the principles of molecular biology, cell structure and function, genetics, evolution, and organization at the tissue level in plants and animals.

BIOLOGY 007 GENERAL BIOLOGY II

5 Units (Lec 3 Hrs / Lab 6 Hrs)

Transfer Credit: CSU (CSUGE Area B2,B3), UC (IGETC Area 5B,5C),

C-ID (BIOL 135 S)

Prerequisite: BIOLOGY 006

In this class designed for general biology majors and pre-professional students, students examine and learn the diversity,

structure, and the life processes of plants and animals, as well as the principles of organization at the organ and organ system levels, embryology, ecology, and behavior.

BIOLOGY 025 HUMAN BIOLOGY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B2), UC (IGETC Area 5B)

Advisory: ENGLISH 021

In this survey course for the nonscience major, students explain the principle human organ systems according to structure and function and examine the problems of pollution, population control, and preservation of the natural environment.

BIOLOGY 046 GENETIC ANALYSIS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B2), UC (IGETC Area 5B)

Prerequisite: BIOLOGY 006

This course is designed for Life Science majors as a continuation of their general biology studies. It provides a comprehensive introduction to genetic analysis examining topics such as chromosome analysis, population genetics, and genomics.

BUSINESS (BUS)

BUS 001 INTRODUCTION TO BUSINESS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC, C-ID (BUS 110)

Advisory: ENGLISH 028, ENGLISH 067

A survey in business providing 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. Demonstrates how these influences impact the primary areas of business including: organizational structure and design; leadership, human resource management, and organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, and financial practices; the stock and securities market; and the effect on a business' ability to achieve its organizational goals.

BUS 015 BUSINESS STATISTICS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2), C-ID (MATH 110)

Prerequisite: MATH 125 or by Appropriate Placement (see p.22)

The student will apply methods for describing data, probability concepts, sampling methods, confidence intervals, hypothesis testing, correlation, analysis of variance, and linear regression.

BUS 017 COMPUTER GRAPHICS FOR BUSINESS

3 Units (Lec 1 Hrs / Lab 4 Hrs)

A comprehensive course in business graphics covering types of business graphics, their uses, and techniques for generating graphics emphasizing computer usage, computer techniques, and current computer graphics software. The student learns types of Excel and PowerPoint programs and how these applications are used in business.

BUS 038 BUSINESS COMPUTATIONS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Advisory: ENGLISH 028, ENGLISH 067

Students learn basic mathematics, beginning with whole numbers and solving word problems, fractions, decimals, checking

accounts, basic algebra, percents, and their applications. The course covers business applications of mathematics, including trade and cash discounts, markups and markdowns, payroll, simple interest and promissory notes, and compound interest.

BUS 911 COOPERATIVE EDUCATION - BUSINESS

Units (Lec 1 Hrs)
Transfer Credit: CSU

Students receive credit for approved internships, including cooperative education and work experience with an employer in the field of Business under the direction of the Cooperative Education Director. The work-site must be approved by the Department Chair. The internship course will assist students in acquiring desirable work habits, attitudes, and career awareness. Students must work 75 hours paid or 60 hours non-paid.

BUS 921 COOPERATIVE EDUCATION - BUSINESS

Units (Lec 2 Hrs)
Transfer Credit: CSU

Students receive credit for approved internships, including cooperative education and work experience with an employer in the field of Business under the direction of the Cooperative Education Director. The work-site must be approved by the Department Chair. The internship course will assist students in acquiring desirable work habits, attitudes, and career awareness. Students must work 75 hours paid or 60 hours non-paid.

BUS 931 COOPERATIVE EDUCATION - BUSINESS

Units (Lec 3 Hrs)
Transfer Credit: CSU

Students receive credit for approved internships, including cooperative education and work experience with an employer in the field of Business under the direction of the Cooperative Education Director. The work-site must be approved by the Department Chair. The internship course will assist students in acquiring desirable work habits, attitudes, and career awareness. Students must work 225 paid hours or 180 volunteer hours during the semester.

BUS 941 COOPERATIVE EDUCATION - BUSINESS

Units (Lec 4 Hrs)
Transfer Credit: CSU

Students receive credit for approved internships, including cooperative education and work experience with an employer in the field of Business under the direction of the Cooperative Education Director. The work-site must be approved by the Department Chair. The internship course will assist students in acquiring desirable work habits, attitudes, and career awareness. Students must work 300 paid hours or 240 volunteer hours during the semester.

COMPUTER APPLICATIONS OFFICE TECHNOLOGIES (CAOT)

CAOT 001 COMPUTER KEYBOARDING AND DOCUMENT APPLICATIONS I

3 Units (Lec 2 Hrs / Lab 3 Hrs)
Transfer Credit: CSU

Students will develop a salable skill: computer keyboarding by touch; minimum speed at end of course of 30 wpm accurately; and formatting of letters, memos, tables, and simple reports using word processing software.

CAOT 002 COMPUTER KEYBOARDING AND DOCUMENT APPLICATIONS II

3 Units (Lec 2 Hrs / Lab 3 Hrs)
Transfer Credit: CSU

Prerequisite: CAOT 001

Students master the keyboard (letters, numbers, and symbols) by touch. Minimum speed at end of course of 40 wpm accurately and formatting of mailable advanced letters, tables, reports, memos, and desktop published documents using Microsoft Word.

CAOT 003 COMPUTER KEYBOARDING III

3 Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

Prerequisite: CAOT 002, CAOT 084

Student develops production skills in using advanced features of Microsoft Word to create properly formatted business documents. Includes composition at the keyboard, decision making, and timed production of letters, tables, and reports. Develops minimum speed at end of course of 50 wpm. Keyboarding I, II, and III are sequential courses and should be completed in that order.

CAOT 014 MICROCOMPUTER OFFICE APPLICATIONS: POWERPOINT

3 Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

Prerequisite: CAOT 082

Develops proficiency in the operation of Microsoft PowerPoint. Provides an overview of presentation design principles. Develops the skill to create, modify, and retrieve various presentations; the skill to integrate PowerPoint with other programs; and the skill to use PowerPoint templates, fonts, graphics, transitions, sound, and animation. Students will learn to outline presentations, create dynamic slides, and develop slide shows based on business topics. Prepares students for certification exam.

CAOT 031 BUSINESS ENGLISH

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students develop the basic language skills needed to communicate effectively in today's workplace. Students will learn fundamental English grammar and punctuation rules as they relate to written and oral communication in business. After successful completion of this course, students will be prepared for CAOT 32 (Business Communications).

CAOT 032 BUSINESS COMMUNICATIONS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU, C-ID (BUS 115)

Prerequisite: ENGLISH 101, CAOT 031

Advisory: CAOT 001

The course begins with the theory of written and oral communication. Students analyze business situations and plan, organize, write, and revise business letters, interoffice memorandums, business reports, and business presentations, as well as improve their general and business vocabularies. This includes the application of business communications and principles of writing. Messages are broken into their component parts for a critical analysis of organization and content, style, tone, grammar, format, and appearance.

CAOT 033 RECORDS MANAGEMENT AND ELECTRONIC FILING**3 Units (Lec 1 Hrs / Lab 2 Hrs)**

Students learn creation, storage, disposition, and preservation of all types of documents using alphabetic, geographic, numeric, and subject methods. Includes introduction to database records management on a microcomputer.

CAOT 043 OFFICE PROCEDURES**3 Units (Lec 3 Hrs)****Prerequisite:** CAOT 031, CAOT 001

Students develop knowledge of automated office skills and develop attitudes for success on the job.

CAOT 047 APPLIED OFFICE PRACTICE**Units (Lab 5 Hrs)****Prerequisite:** CAOT 001

The student will learn practical experience in working in an office on campus and lectures relating to office behavior, productivity, motivation, and interpersonal skills.

CAOT 048 CUSTOMER SERVICE**Units (Lec 3 Hrs)****Transfer Credit:** CSU

This course is designed to raise awareness, prompt thinking, give step-by-step suggestions for improvement, and provide information on how an organization can deliver service excellence. The information is beneficial whether one is new to dealing with others in a business setting or is more experienced with internal customers (e.g., coworkers or other employees) and external customers (e.g., consumers, vendors, or other end users of products). Emphasis is placed on communication, diversity, technology, time management, stress management, and customer retention.

CAOT 064 COMPUTER APPLICATIONS AND OFFICE TECHNOLOGIES LABORATORY**1 Units (Lab 2 Hrs)****Transfer Credit:** CSU**Corequisite:** CAOT 001

Students in Computer Applications and Office Technologies classes receive additional time on computers to work with all the software that is offered in the Department. Students must complete a minimum of 32 hours per semester.

CAOT 079 WORD PROCESSING APPLICATIONS**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit:** CSU**Prerequisite:** CAOT 084, CAOT 031 or CAOT 082

Students develop further skill in preparing a variety of business documents on a personal computer. Includes advanced techniques using Microsoft Word. Covers formats for letters, memos, reports, tables, outlines, form documents, graphics, desktop publishing, and merged documents. Prepares students for certification exam.

CAOT 082 MICROCOMPUTER SOFTWARE SURVEY IN THE OFFICE**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit:** CSU**Prerequisite:** CAOT 001, CAOT 098

Students learn to use the microcomputer and commercially available software used in a business office. The course provides a hands-on introduction to word processing, database, spreadsheet, graphics, desktop publishing, and presentation design software.

CAOT 084 MICROCOMPUTER OFFICE APPLICATIONS: WORD PROCESSING**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit:** CSU**Advisory:** ESL 005A, CAOT 001

Students use basic and advanced commands in Microsoft Word or other word processing software to create, format, edit, save, and print documents including letters, tables, reports, and charts, as well as merge documents and use document collaboration and integration tools. Students use desktop publishing features to create newsletters, brochures, fliers, and online forms.

CAOT 085 MICROCOMPUTER OFFICE APPLICATIONS: SPREADSHEET**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit:** CSU

Students learn office spreadsheet applications using a PC and spreadsheet application software such as Excel. Students are taught to create, edit, format, and print worksheets; construct graphs; and build databases that utilize the data table function.

CAOT 086 MICROCOMPUTER OFFICE APPLICATIONS: DATABASE**3 Units (Lec 1 Hrs / Lab 4 Hrs)****Transfer Credit:** CSU**Advisory:** CAOT 001

The students learn office database applications using a relational database program such as MS Access. Records design, file creation and maintenance, data manipulation, report formats, and printing are covered. Office applications, such as records for personnel, inventory, and sales, are emphasized. Graphing and integration with a word processing program to produce automated mailings are included.

CAOT 088 MICROCOMPUTER OFFICE APPLICATIONS: DESKTOP PUBLISHING**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit:** CSU

The student gains knowledge and skills necessary to use personal computers, printers, and various desktop publishing software and produces camera ready, near typeset quality reports, newsletters, brochures, flyers, business forms, and presentations.

CAOT 098 MICROCOMPUTER OFFICE APPLICATIONS: DISCOVERING COMPUTERS: DIGITAL LITERACY**3 Units (Lec 1 Hrs / Lab 4 Hrs)**

Students prepare to work in the Windows environment. Emphasizes the features of Windows, including changing and creating icons, opening and closing windows and other applications, responding to dialog boxes, and working with directories.

CAOT 112 MICROCOMPUTER OFFICE APPLICATIONS: WEB PAGE DESIGN**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit:** CSU

Students will learn the most important topics of web page design. The course emphasizes creating a new website, integrating a database, styles, and working with HTML code.

CHEMISTRY (CHEM)

CHEM 058 EVERYDAY CHEMISTRY (CHEMISTRY FOR LIBERAL ARTS STUDENTS)

Units (Lec 3 Hrs)
Transfer Credit: CSU
Advisory: MATH 115

The student will learn the scientific, social, political, and economic aspects associated with their chemical environment. Fundamental chemical principles are developed and then applied to various topics of interest involving life processes and the environment. Lecture topics include energy and fuels, nuclear chemistry, environmental chemistry, forensic chemistry, biochemistry, genes and biochemistry, health and medicine, food and nutrition, and household products.

CHEM 060 INTRODUCTION TO GENERAL CHEMISTRY 5 Units (Lec 3 Hrs / Lab 4 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C),
C-ID (CHEM 101)
Advisory: ENGLISH 028, ENGLISH 067, MATH 125

The student learns chemistry nomenclature of elements and inorganic compounds, concepts in ionic and covalent bonding, atomic structure, molecular geometry, chemical reactions, multi-conceptual problem solving, measurement techniques, stoichiometry and its applications, states of matter and related energy transfers, gas laws, aqueous solution chemistry, quantum basic theory, periodic properties of the elements, colligative properties of solutions, and an introduction to acid base chemistry concepts. This course is a survey of basic chemistry fundamentals with a laboratory component, emphasizing fundamental principles of inorganic and physical chemistry. Quantitative and qualitative laboratory exercises are related to the lecture topics. This course serves as preparation for majoring in chemistry and the life sciences, studies in allied health, and general physical science education, meeting the IGETC and CSU general education requirements for physical science with laboratory.

CHEM 065 INTRODUCTORY GENERAL CHEMISTRY Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C)
Advisory: ENGLISH 028, ENGLISH 067, MATH 125

This course is a survey of basic chemistry topics with laboratory, emphasizing fundamental principles of inorganic and physical chemistry. This course meets the IGETC and CSU general education requirements for physical science with laboratory. Introductory chemistry topics include nomenclature of elements and inorganic compounds, ionic and covalent bonding, atomic structure, molecular geometry, chemical reactions, problem solving, measurements, stoichiometry, states of matter and related energy concepts, gas laws, aqueous and solution chemistry, quantum theory, periodic properties, colligative properties, and acid base concepts. Laboratory exercises are quantitative in nature and are related to the lecture topics.

CHEM 101 GENERAL CHEMISTRY I

Units (Lec 3 Hrs / Lab 6 Hrs)
Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C),
C-ID (CHEM 110)
Prerequisite: CHEM 060 or CHEM 065, MATH 125
Advisory: ENGLISH 028, ENGLISH 067

The student learns complex chemistry nomenclature of elements and inorganic compounds, detailed concepts in ionic and covalent bonding, details in atomic structure, in-depth

treatment of molecular geometry, in-depth introduction to chemical reactions, rigorous multi-conceptual problem solving, measurement techniques and error analysis, stoichiometry and its complex applications, states of matter and related energy transfers, gas laws and deviations from ideal behavior, quantum theory of the atom, details of periodic properties of the elements, colligative properties of solutions, and an introduction to oxidation and reduction reactions. This course builds upon basic chemistry fundamentals with a laboratory component, emphasizing fundamental principles of inorganic and physical chemistry. Quantitative and qualitative laboratory exercises are related to the lecture topics. This course serves as preparation for majoring in chemistry and the life sciences, or studies in allied health. This is the first semester of a one-year course in chemistry intended for majors in the natural sciences (chemistry, biochemistry, biology, physics, pre-medicine/allied health), mathematics, and engineering.

CHEM 102 GENERAL CHEMISTRY II

5 Units (Lec 3 Hrs / Lab 6 Hrs)
Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C)
Prerequisite: CHEM 101
Advisory: ENGLISH 028, ENGLISH 067 or ENGLISH 031

The student is exposed to introductory chemical kinetics and the basic theories elucidating the governing of reactions rates, general chemical and aqueous solution equilibria, thermodynamics including free energy and entropy, electrochemistry, nuclear chemistry, descriptive chemistry, and structure and bonding in transition metal complexes, and basic organic chemistry. In the laboratory students apply what is learned in lecture to experiments in reaction kinetics, chemical qualitative analysis, chemical and spectroscopic quantitative analysis, potentiometric titration techniques, and electrochemistry.

CHEM 185 DIRECTED STUDY - CHEMISTRY

1 Units (RPT 2) (Lec 1 Hrs)
Transfer Credit: CSU
Prerequisite: CHEM 102

Students pursue Directed Study in Chemistry on a contract basis under the direction of a supervising instructor. Laboratory and literature research are performed.

CHEM 211 ORGANIC CHEMISTRY FOR SCIENCE MAJORS I

5 Units (Lec 3 Hrs / Lab 6 Hrs)
Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C),
C-ID (CHEM 150)
Prerequisite: CHEM 102

In this the first part of a two-course sequence, students learn organic molecular structure, nomenclature, stereochemistry, detailed concepts in formulating reaction mechanisms, a comprehensive treatment of reactive intermediates, and is also introduced to basic reactions and synthetic manipulations of alkanes, alkenes, alkynes, alcohols, ethers, and their derivatives. Mass spectrometry, nuclear magnetic resonance spectrometry, and Infrared spectrometry, UV-Vis spectroscopy are also introduced in compound characterization. The student will learn the retrosynthetic approach to synthetic organic chemistry and be expected to design and execute a simple synthetic project. The laboratory presents the techniques of preparation, where students learn isolation and analysis of organic compounds employing standard and modern instrumental methods.

CHEM 212 ORGANIC CHEMISTRY FOR SCIENCE MAJORS II**5 Units (Lec 3 Hrs / Lab 6 Hrs)****Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C)****Prerequisite: CHEM 211**

The student will add to their repertoire of functional group manipulation reactions by studying aromatic compounds, amines, heterocycles, carbonyls and their derivatives, carbohydrates, amino acids and proteins, and nucleic acids. More complex reaction mechanisms are introduced along with more complex synthesis problems. The laboratory presents more techniques of preparation, where students will learn isolation and analysis of organic compounds employing modern instrumental analysis.

CHEM 221 BIOCHEMISTRY FOR SCIENCE MAJORS**5 Units (Lec 3 Hrs / Lab 6 Hrs)****Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C)****Prerequisite: CHEM 211****Advisory: ENGLISH 028, ENGLISH 067, ENGLISH 031**

Students learn the principles of biochemistry, with an emphasis on the structure and function of biomolecules, the role of metabolism in energy production and biosynthesis, and common biochemical laboratory techniques. Topics relate to the chemistry and metabolism of biological compounds. Topics include the structure and function of biomolecules, including proteins, lipids, carbohydrates, nucleic acids and their precursors. The course also presents enzyme catalysis, and the details of the central metabolic pathways (glycolysis, gluconeogenesis, glycogenolysis, the citric acid cycle, electron transport and oxidative phosphorylation, lipid degradation and biosynthesis, and nitrogen metabolism) including their regulation and integration. Laboratory work includes electrophoresis, chromatography, spectroscopy, and enzyme purification and kinetics. This course prepares students for careers in the physical and biological sciences, pharmacy, medical and dental professions, veterinary and agricultural science, nutrition and food chemistry, and related fields.

CHEM 285 DIRECTED STUDY - CHEMISTRY**Units (Lec 2 Hrs)****Transfer Credit: CSU****Prerequisite: CHEM 102**

Students pursue Directed Study in Chemistry on a contract basis under the direction of a supervising instructor. Laboratory and literature research are performed.

CHEM 385 DIRECTED STUDY - CHEMISTRY**Units (Lec 3 Hrs)****Transfer Credit: CSU****Prerequisite: CHEM 102**

Students pursue Directed Study in Chemistry on a contract basis under the direction of a supervising instructor. Laboratory and literature research are performed.

CHICANO STUDIES (CHICANO)**CHICANO 007 THE MEXICAN-AMERICAN IN THE HISTORY OF THE UNITED STATES I****3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4)**

Students survey United States history from early colonial period through the Civil War with special emphasis on the contribution of Mexican Americans. This course provides a background in the political and social development of both the United States and Mexico, and, in addition, is for those who wish to gain a better understanding of Mexican culture in the Southwestern United States. Included is a survey of the U.S. Constitution.

CHICANO 008 THE MEXICAN-AMERICAN IN THE HISTORY OF THE UNITED STATES II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D, US1), UC (IGETC Area 4)**

Students survey the history of the Mexican people in the United States from 1848 to the present time. The content includes a discussion of the United States War with Mexico, the Treaty of Guadalupe-Hidalgo and the subsequent incorporation of Mexicans into the United States. Emphasis is placed on the politics of race, its origin in the colonial process and its impact on the historical development of a Mexican American ethnic identity in the United States.

CHICANO 044 MEXICAN CIVILIZATION**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)**

Students engage in a broad survey of Mexican civilization and culture. The course covers the periods of pre-historic expansion of Mesoamerica, Pre-Columbian Mexican civilization, the Spanish conquest, the colonial period, and Mexico in the 19th and 20th century.

CHILD DEVELOPMENT (CH DEV)**CH DEV 001 CHILD GROWTH AND DEVELOPMENT****3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D,E), UC (IGETC Area 4), C-ID (CDEV 100)****Advisory: ENGLISH 101**

Students examine the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There is an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences, and analyze characteristics of development at various stages.

CH DEV 002 EARLY CHILDHOOD: PRINCIPLES AND PRACTICES**3 Units (Lec 3 Hrs)****Transfer Credit: CSU****Corequisite: CH DEV 001**

An examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative, and intellectual development for all children. This course includes a review of the

historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity.

CH DEV 007 INTRODUCTION TO CURRICULUM IN EARLY CHILDHOOD EDUCATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, C-ID (ECE 130)
Prerequisite: CH DEV 001, CH DEV 002
Advisory: ENGLISH 101

Students learn and develop the knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age six. Students examine a teacher's role in supporting development and engagement for all young children. Students learn strategies for developmentally-appropriate practice based on observation and assessments across the curriculum, including 1) academic content areas, 2) play, art, and creativity, and 3) development of social-emotional, communication, and cognitive skills.

CH DEV 010 HEALTH, SAFETY AND NUTRITION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, C-ID (ECE 220)

Students learn about the laws, regulations, standards, policies, and procedures and early childhood curriculum related to child health, safety, and nutrition. The key components that ensure physical health, mental health, and safety for children and staff are identified along with importance of collaboration with families and health professional. The interrelationship of health, safety, and nutrition and the impact on children's growth and development are key focuses.

CH DEV 011 CHILD, FAMILY AND COMMUNITY

Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area D), C-ID (GDEV 110)

Students examine the developing child in a societal context focusing on the interrelationship of the family, school, and community and emphasizes 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. Some topics covered are: social influences on parenting styles, communication, child-rearing, and the relationships between the child, family, and the school.

CH DEV 022 PRACTICUM IN CHILD DEVELOPMENT I

Units (Lec 2 Hrs / Lab 6 Hrs)
Transfer Credit: CSU, C-ID (ECE 210)
Prerequisite: CH DEV 001, CH DEV 007, CH DEV 011, ENGLISH 101

Students are assigned to an approved Early Care and Education program to practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of an ECD/CD faculty and other qualified early education professionals. Students utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, assessment, and knowledge of curriculum content areas is emphasized as student teachers design, implement, and evaluate experiences that promote positive development and learning.

CH DEV 023 PRACTICUM IN CHILD DEVELOPMENT II

4 Units (Lec 2 Hrs / Lab 6 Hrs)
Transfer Credit: CSU
Prerequisite: CH DEV 022

This course provides an advanced practicum experience. Students apply assessment strategies to plan, implement, and evaluate developmentally appropriate activities. Techniques that promote partnerships between teachers and families are developed. An educational philosophy statement, a resume, and a professional portfolio are created. Students assigned to directed practicum teaching in a child development center demonstrate professional and ethical behaviors. State law requires a TB test (Mantoux Test) or chest x-ray, and immunization record. Student must bring proof of TB clearance and immunization records to the first class. NOTE: In addition to the seminar class, students are required to complete a minimum of 90 hours TBA at an approved field site.

CH DEV 030 INFANT/TODDLER DEVELOPMENT

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

This course provides an in-depth study of the development of infants and toddlers. Developmental domains and areas include cognitive/language, social/ emotional, and perceptual/motor development, along with milestones of children from birth to 36 months. Particular attention is given to attachment theory and research, with an overview on brain development, the value of exploration and play, early intervention, disabilities, and a relationship-based care in the context of family systems of culture, home language, and traditions. Respectful caregiving principles, practices, and routines within culturally and developmentally appropriate environments are discussed. Class instruction includes objective observations and identification of developmental domains of infants and toddlers in diverse settings.

CH DEV 031 INFANT/TODDLER CARE AND EDUCATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn the principles of inclusive, respectful, caregiving for infants and toddlers. Topics include: typical and atypical development principles of early intervention, appropriate environments, curriculum, and infant care licensing; observation, assessment, and intervention plans; and tools for family communications and home visits within the context of home language, culture, and traditions. Verification of Mantoux test (TB test) or chest x-ray is required.

CH DEV 034 OBSERVING AND RECORDING CHILDREN'S BEHAVIOR

3 Units (Lec 3 Hrs)
Transfer Credit: CSU
Prerequisite: CH DEV 001, ENGLISH 101

Students learn the appropriate use of assessment and observation strategies to document development and behavior. Child observations are conducted and analyzed. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. Verification of annual Mantoux test or chest x-ray is required.

CH DEV 038 ADMINISTRATION & SUPERVISION OF EARLY CHILDHOOD PROGRAMS I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU****Prerequisite: CH DEV 011 and CH DEV 003 or CH DEV 004 or CH DEV 007**

Students are prepared to establish and administer an early childhood program. Financial aspects of administration and legal rules and regulations pertaining to establishing a center are emphasized. Students apply licensing information and knowledge of regulations to design an appropriate environment, create a fiscal plan, marketing strategy, and develop an enrollment and hiring process. This course partially fulfills the licensing requirements for the director.

CH DEV 039 ADMINISTRATION II: PERSONNEL AND LEADERSHIP IN EARLY CHILDHOOD EDUCATION**3 Units (Lec 3 Hrs)****Transfer Credit: CSU****Prerequisite: CH DEV 007 or CH DEV 011**

Students learn and apply effective strategies for personnel management and leadership in early care and education settings. Students analyze state and federal regulations, ethical responsibilities, and learn how to apply the information to develop and supervise a comprehensive, culturally sensitive, diverse, and inclusive program. Students learn supervision techniques, professional development, and reflective practices designed for program improvement. This course partially fulfills the licensing requirement for a director.

CH DEV 042 TEACHING IN A DIVERSE SOCIETY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D), C-ID (ECE 230)****Advisory: ENGLISH 101**

Students examine the development of social identities in diverse societies including theoretical and practical implications affecting young children, families, programs, teaching, education, and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. The course involves self-reflection of one's own understanding of educational principles in integrating anti-bias goals in order to better inform teaching practices and/or program development.

CH DEV 044 EARLY INTERVENTION FOR CHILDREN WITH SPECIAL NEEDS**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

This course is designed for students intending to work with children with special needs. Students examine components of a comprehensive service delivery system that is based on legal mandates and an understanding of typical and atypical development across all domains. Also discussed is the role of observation and documentation in adapting the environment, creating instructional strategies for including children with special needs in early childhood programs.

CH DEV 045 PROGRAMS FOR CHILDREN WITH SPECIAL NEEDS**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students learn about programs for exceptional children and best practices for inclusion of children with special needs into educational settings as close to their typically developing peers

as possible. Students explore a variety of disabilities from a child development perspective including definition and educational implications.

CH DEV 048 POSITIVE GUIDANCE IN EARLY CHILDHOOD SETTINGS**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students explore developmentally appropriate management techniques for children in early childhood settings. Emphasis is on developing culturally sensitive individualized plans for behavior management of traditional and special needs children.

CH DEV 065 ADULT SUPERVISION/EARLY CHILDHOOD MENTORING**2 Units (Lec 2 Hrs)****Transfer Credit: CSU****Prerequisite: CH DEV 022**

The class focuses on the principles and practices of supervision and evaluation of staff in Early Childhood programs. Emphasis is placed on the role of experienced teachers who mentor or supervise new teachers and student teachers. This meets supervision requirement for the Child Development Permit.

CH DEV 084-1 CHILD DEVELOPMENT LAB I: CURRICULUM DEVELOPMENT**0.5 Units (Lab 1 Hrs)****Transfer Credit: CSU**

This course allows students interested in working in the field of Child Development, or taking Child Development classes, to use lab materials and curriculum resource books to design lesson plans, games, and other curricular activities. A \$20 lab fee is required.

CH DEV 084-2 CHILD DEVELOPMENT LAB I: TECHNOLOGY FOR THE EARLY CHILDHOOD EDUCATOR**0.5 Units (Lab 1 Hrs)****Transfer Credit: CSU**

Students learn to use lab materials, technology, and equipment to design lesson plans, games, and other curricular activities. A \$20 lab fee is required.

CH DEV 085-1 CHILD DEVELOPMENT LITERACY LAB I**0.5 Units (Lab 1 Hrs)****Transfer Credit: CSU**

Students enrolled in Child Development classes who are interested in an Early Literacy Lab experience focus on quality literacy experiences such as exposure to age-appropriate literacy materials and modeling library habits under the supervision of a literacy expert. Students design curricular activities and select quality literature that foster children's language and literacy development.

CH DEV 172 INTRODUCTION TO CAREERS IN CHILD DEVELOPMENT**Units (Lec 1 Hrs)****Transfer Credit: CSU**

Introduces students to the variety of career options available to Child Development majors. The course explores career opportunities, qualifications required, resources available, and academic and professional support systems.

CH DEV 285 DIRECTED STUDY - CHILD DEVELOPMENT
Units (Lec 2 Hrs)
Transfer Credit: CSU

Child Development students pursue Directed Study on a contract basis under the direction of a supervising instructor. Scheduled consultations with the instructor are required.

CHINESE (CHINESE)

CHINESE 001 ELEMENTARY CHINESE I

5 Units (Lec 5 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)

Elementary course for student without prior exposure to Chinese. Develops speaking, writing, listening, and reading skills in Chinese at the ACTFL Proficiency Novice-Mid Level, and introduces Chinese culture.

CHINESE 002 ELEMENTARY CHINESE II

5 Units (Lec 5 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A)
Prerequisite: CHINESE 001

Continues the development of elementary speaking, writing, listening, and reading skills in Chinese at the ACTFL Proficiency Novice-High Level, and furthers understanding of Chinese culture.

CHINESE 003 INTERMEDIATE CHINESE I

5 Units (Lec 5 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)
Prerequisite: CHINESE 002

Development of intermediate Chinese in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-Mid Level, and practice interpreting Chinese culture.

CHINESE 004 INTERMEDIATE CHINESE II

5 Units (Lec 5 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)
Prerequisite: CHINESE 003

Continues the development of intermediate Chinese in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-High Level and utilizes knowledge of Chinese culture.

CHINESE 007 CONVERSATIONAL CHINESE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: CHINESE 002

Students will develop practical speaking and listening skills in Chinese at the ACTFL Proficiency Intermediate-Low Level, and utilize culture in spoken communication.

CHINESE 010 CHINESE CIVILIZATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)

Course taught in English. Focuses on the history, culture, traditions, and arts of China and its people. The contribution of China to world civilization is examined.

CHINESE 021 FUNDAMENTALS OF CHINESE I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC
Advisory: ENGLISH 028, ENGLISH 067

Fundamental course for students without prior exposure to Chinese. Develops speaking, writing, listening, and reading skills in Chinese at the ACTFL Proficiency Novice-Low Level, and raises

awareness about Chinese culture. CHINESE 021 and CHINESE 022 together are equivalent to CHINESE 001. Both CHINESE 021 and CHINESE 022 must be taken for UC:CSU credit.

CHINESE 022 FUNDAMENTALS OF CHINESE II

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC
Prerequisite: CHINESE 021

Continues the development of fundamental speaking, writing, listening, and reading skills in Chinese at the ACTFL Proficiency Novice-Mid Level, and introduces Chinese culture. CHINESE 021 and CHINESE 022 together are equivalent to CHINESE 001. Both CHINESE 021 and CHINESE 022 must be taken for UC:CSU credit.

CINEMA (CINEMA)

CINEMA 001 INTRODUCTION TO MOTION PICTURE PRODUCTION

3 Units (Lec 2 Hrs / Lab 2 Hrs)
Transfer Credit: CSU, UC

This is a comprehensive introduction to single-camera motion picture production, film/video techniques, and equipment. Proper procedures are explained and demonstrated for the use of cameras, lenses, filters, lights, microphones, audio recorders, and other motion picture equipment. Attention is also given to production planning, shot composition, editing, mixing, and post production. Note: This is an equipment techniques and pre-production class. The hands-on production work is done in sister class CINEMA 002 (Beginning Motion Picture Workshop); concurrent enrollment is recommended.

CINEMA 002 BEGINNING MOTION PICTURE WORKSHOP

3 Units (Lec 1 Hrs / Lab 4 Hrs)
Transfer Credit: CSU, UC

Introductory workshop in practical filmmaking. Each student will be responsible for making several short films in digital video. This course provides an introduction to the theory, terminology, and operation of single camera video production, including composition and editing techniques, camera and recorder operation, portable lighting, audio control, and basic editing. This course focuses on the aesthetics and fundamentals of storyboarding, producing, directing for location single camera production, and postproduction and exhibition.

CINEMA 003 HISTORY OF MOTION PICTURES

3 Units (Lec 2 Hrs / Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A), C-ID (FTVE 105)

Students study the history of the development of motion pictures, with examples, from their beginnings to the present day. Emphasis is placed on the American feature film.

CINEMA 004 HISTORY OF THE DOCUMENTARY FILM

3 Units (Lec 2 Hrs / Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A), C-ID (FTVE 105)

Students examine the development of films dealing with the truth. Nonfiction films seen and discussed include: historical, animated, propaganda, educational, commercial, personal and participatory, cinema verite, and direct cinema. Students will develop critical standards for judging documentary films.

CINEMA 005 INTRODUCTION TO SCREENWRITING**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 001, CINEMA 002, CINEMA 003, CINEMA 004 or CINEMA 018**

Students will write two screenplays. Cinema majors write the scripts for films they make in CINEMA 033.

CINEMA 006 INTRODUCTION TO CINEMATOGRAPHY**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Prerequisite: CINEMA 001, CINEMA 002, CINEMA 003, CINEMA 004 or CINEMA 018****Advisory: PHOTO 007**

This is an introduction to current fundamentals and tools of the art and craft of cinematography. The course involves lecture, studio demonstrations, and hands-on training. Foundational skills covered during the course include DSLR, professional digital cinema cameras, lenses and optics, composition, controlling focus, assistant camera training, camera movement, camera operating, exposure tools, filtration, cinematography post-production, and lighting. Access to a digital still camera is necessary for assignments.

CINEMA 007 ADVANCED CINEMATOGRAPHY AND CREATIVE TECHNIQUES**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 006**

An advanced course in cinematography covering current industry professional equipment and techniques used in the motion picture industry. Emphasis is placed on digital cinema cameras, film, and lighting applied to practical shooting scenarios that cinematographers must deliver.

CINEMA 009-1 BEGINNING MOTION PICTURE SOUND PRODUCTION**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

Students learn the basics of motion picture production and post-production sound. Hands-on work includes the use of digital audio recorders, microphones, fishpoles and booms, and audio editing software.

CINEMA 009-2 INTERMEDIATE MOTION PICTURE SOUND AND POST PRODUCTION SOUND DESIGN**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 009 or CINEMA 009-1**

Intermediate television and cinema students are introduced to audio production, post-production software, and other elements of sound design to create final soundtracks for media productions. This course explores in-depth aesthetic concepts and real-world audio craftsmanship.

CINEMA 010 INTRODUCTION TO FILM DIRECTING**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Prerequisite: CINEMA 001, CINEMA 002, CINEMA 003, CINEMA 004 or CINEMA 018**

This is an introduction to the crafts of acting and directing for the film medium. Students will choose a script, cast it, rehearse their actors, and present a scene in class, along with a production package including script notes, scene goals, character analysis, storyboard, and shot list.

CINEMA 017 ADVANCED MOTION PICTURE POST-PRODUCTION**3 Units (Lec 2 Hrs / Lab 2 Hrs)**

An introductory course in post production finishing that covers the process of basic color correction, shot matching, and the workflow required to create a final theatrical and broadcast delivery.

CINEMA 018 INTRODUCTION TO FILM GENRES**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area C1,C2), UC (IGETC Area 3A,3B), C-ID (FTVE 105)**

Students explore the main film genres along with the specific contributions of the major filmmakers in each genre, and the style and practices of studio production, marketing, and distribution. Each class includes the screening of a significant feature-length film that typifies or exemplifies that genre.

CINEMA 020 BUSINESS ASPECTS OF MOTION PICTURE PRODUCTION**3 Units (Lec 3 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 001, CINEMA 002, CINEMA 003, CINEMA 004 or CINEMA 018**

Students survey business practices of the motion picture industry, including the development, financing, production, and distribution of media content. Through individual and group collaboration in a workshop setting, students create a pre-production business package including a treatment, screenplay, business letter, bio, AD breakdown, production strip board, schedule, budget, storyboards, location sketches, and movie poster. Students work in groups to create and deliver a verbal pitch and presentation for a short film to an industry panel.

CINEMA 025 PRODUCING MOTION PICTURE FEATURES**3 Units (Lec 3 Hrs)**

Students research and prepare independent motion picture projects. Activities include developing screenplays, researching state-of-the-art media and business issues, analyzing professional production solutions, and creating business plans. Students will learn professional standards for intellectual property, privacy and publicity rights as well as financing, contracts, production issues, capture, distribution formats/outlets, and marketing. Students do case studies of contemporary independent film projects, including micro-budget films and low-budget films.

CINEMA 032-1 EDITING FUNDAMENTALS I**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 001, CINEMA 002, CINEMA 003, CINEMA 004 or CINEMA 018**

In this introduction to the art and craft of editing, the student gains storytelling and digital editing skills using the latest nonlinear editing software. The student receives hands-on experience editing various projects and exercises with footage provided to them in class, and applies techniques to learn matching action, screen direction, timing, shot connotation, character, emotion, pacing, and rhythm. Students also edit their own footage and learn how to practically apply various theoretical concepts of editing to create a compelling story. Projects will be reviewed and analyzed in class and the student will gain an understanding and appreciation of editing aesthetics and history.

CINEMA 032-2 EDITING FUNDAMENTALS II**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 032-1**

Students develop advanced editing techniques and gain practical skills in visual effects, motion graphics, compositing, sound design, color correction, and finishing. Students gain workflow knowledge and explore the entire post-production process through footage provided in class and their own footage. Students learn the differences between editing for documentary, dramatic narrative, and genre, as well as the role of the assistant editor. Work will be screened and analyzed in class, and advanced techniques will be demonstrated and applied.

CINEMA 033-1 DIGITAL VIDEO PRODUCTION WORKSHOP I**3 Units (Lec 1 Hrs / Lab 4 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 001, CINEMA 002, CINEMA 003, CINEMA 004 or CINEMA 018**

Intermediate film and television students produce short video projects using digital video cameras and editing systems.

CINEMA 033-2 DIGITAL VIDEO PRODUCTION WORKSHOP II**3 Units (Lec 1 Hrs / Lab 4 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 033-1**

Intermediate film and television students extensively plan, shoot, and edit two short or one longer advanced digital video project(s). Special emphasis is placed on pre-production planning.

CINEMA 038-1 MOTION PICTURE STAGE GRIP**3 Units (Lec 2 Hrs / Lab 2 Hrs)**

In this hands-on course, students learn basic grip skills and safe operation of grip equipment and tools presently in use in motion pictures, both in studio and on location. The equipment, tools, and safe practices include, but are not limited to: C-stands, Jr. stands, baby stands, overhead stands, flags, nets, diffusion, butterflies, gels, diffusion, aerial lifts, ladders, dollies, camera support, rigging, knots, cutting and shaping light, manipulating light, lists and schedules, maintaining a staging area, set etiquette, crew hierarchy, tools of the trade, and set safety.

CINEMA 038-2 MOTION PICTURE STAGE ELECTRIC**3 Units (Lec 2 Hrs / Lab 2 Hrs)**

This is an introductory hands-on course to the fundamental skills and tools necessary to safely work on set as an entry level electric on location and in a studio environment. Lectures and demonstrations are followed by hands-on studio exercises.

CINEMA 060 ENTERTAINMENT INDUSTRY CAREERS BELOW-THE-LINE PRODUCTIONS SKILLS I**3 Units (Lec 2 Hrs / Lab 2 Hrs)**

This introductory course is designed to help students develop the skills needed to obtain and keep a position in the motion picture and television industries. Skills taught include working with production managers, first assistant directors, production designers, and script supervisors, with a focus on basic safety issues relevant to each department.

CINEMA 185 DIRECTED STUDY - CINEMA**1 Units (Lec 1 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 005 or CINEMA 033-1**

The student creates a writing, mentoring, or post-production study project as agreed upon by the student and a supervising instructor.

CINEMA 501 MEDIA AESTHETICS AND DESIGN FOR FILM AND DIGITAL MEDIA**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A), C-ID (FTVE 105)****Advisory: PHOTO 007**

(Same as PHOTO 501.) The student learns the analysis of film and modern visual media, including the cinema, television, the Internet, advertising, social networking, and fine art. The student learns to examine the broad questions of form and content, aesthetics and meaning, and history and culture, exploring the diverse possibilities presented by the cinematic art form through an examination of a wide variety of productions, national cinemas, and film movements. Topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology, and critical analysis. This course is recommended for all cinema and photography majors, and is open to graphic artists as well as the general public.

CINEMA 911 COOPERATIVE EDUCATION - CINEMA**Units (Lec 1 Hrs)****Transfer Credit: CSU****Advisory: CINEMA 001**

Cooperative Education is a work experience course that grants college credit for supervised employment for internships in the field of entertainment. Students will gain on-the-job training, enhance work skills, and career awareness. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program. Student must work 75 hours paid or 60 hours non-paid during the semester.

CINEMA 921 COOPERATIVE EDUCATION - CINEMA**Units (Lec 2 Hrs)****Transfer Credit: CSU****Advisory: CINEMA 001**

Students receive work experience that grants college credit for supervised employment for internships in the field of entertainment. Students will gain on-the-job training, enhance work skills, and career awareness. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in the program. Student must work 150 hours paid or 120 hours non-paid during the semester.

CINEMA 931 COOPERATIVE EDUCATION - CINEMA**Units (Lec 3 Hrs)****Transfer Credit: CSU****Advisory: CINEMA 001**

Students receive work experience that grants college credit for supervised employment for internships in the field of entertainment. Students will gain on the job training, enhance work skills, and career awareness. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

CINEMA 941 COOPERATIVE EDUCATION - CINEMA**Units (Lec 4 Hrs)****Transfer Credit: CSU****Advisory: CINEMA 001**

Students receive work experience that grants college credit for supervised employment for internships in the field of entertainment. Students will gain on the job training, enhance work skills, and career awareness. Completion of at least seven units, including Cooperative Education, at the end of the semester is required. Students must be employed or volunteering/interning in order to participate in program.

COMPUTER SCIENCE (CS)

Note: Starting with the fall 2020 semester, all CO SCI courses are replaced with CS and CIS courses. The map below indicates the equivalent former CO SCI courses.

Course #	Computer Science (CS) Course	Formerly
CS 101	INTRODUCTION TO COMPUTER SCIENCE	CO SCI 103
CS 102	PROGRAMMING LOGIC AND DESIGN (INTRODUCTION TO PROGRAMMING)	CO SCI 107
CS 103	MATHEMATICS FOR PROGRAMMERS	CO SCI 104
CS 111	PROGRAMMING IN VISUAL BASIC	CO SCI 108
CS 211	ADVANCED VISUAL BASIC PROGRAMMING	CO SCI 138
CS 112	PROGRAMMING IN JAVASCRIPT	CO SCI 162
CS 113	PROGRAMMING IN JAVA (C-ID = 112 Intro to Programming)	CO SCI 141
CS 213	ADVANCED PROGRAMMING IN JAVA (C-ID = 122 Programming Concepts and Methodology I)	CO SCI 142
CS 116	PROGRAMMING IN C++ (C-ID = 112 Intro to Programming)	CO SCI 139
CS 216	OBJECT ORIENTED PROGRAMMING IN C++ (C-ID = 122 Programming Concepts and Methodology I)	CO SCI 140
CS 119	PROGRAMMING IN PYTHON	CO SCI 124
CS 130	INTRO TO COMPUTER ARCHITECTURE AND ORGANIZATION (C-ID = 142 Computer Architecture and Organization)	CO SCI 117
CS 131	DISCRETE STRUCTURES FOR COMPUTER SCIENCE (C-ID = 152 Discrete Structures)	CO SCI 166
CS 136	INTRODUCTION TO DATA STRUCTURES (C-ID = 132 Programming Concepts and Methodology II)	CO SCI 136
CS 137	PROGRAMMING IN PL/SQL FOR ORACLE	CO SCI 198
CS 143	MOBILE APPLICATION DEVELOPMENT - ANDROID	CO SCI 123
CS 144	MOBILE APPLICATION DEVELOPMENT - IOS	CO SCI 122
CS 146	APPLE MOBILE APPLICATION DEVELOPMENT II	CO SCI 146
CS 147	APPLE MOBILE APPLICATION DEVELOPMENT III	CO SCI 147
CS 157	FULL-STACK WEB APPLICATION DEVELOPMENT	CO SCI 159

CS 101 INTRODUCTION TO COMPUTER SCIENCE**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area D), C-ID (BUS 140 or ITIS 120)**

(Formerly CO SCI 103) Students receive an introduction to computers for a one-semester transfer course or for certificates or a degree in CSIT. Topics include computers, programming and

systems design, programming languages, and flowcharting. Laboratory includes word processing, spreadsheets, database concepts, and extensive programming in Visual Basic.

CS 102 PROGRAMMING LOGIC AND DESIGN (INTRODUCTION TO PROGRAMMING)**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

(Formerly CO SCI 107) The student develops program design skills and general problem-solving skills by applying structured programming techniques to program specifications and already written programs. The student learns to write program designs and documentation from descriptions of programs and from the analysis of already written programs.

CS 103 MATHEMATICS FOR PROGRAMMERS**3 Units (Lec 3 Hrs)****Transfer Credit: CSU****Prerequisite: CS 101 or CO SCI 103**

(Formerly CO SCI 104) The student develops mathematical reasoning and general problem-solving skills using topics from binary arithmetic including two's complement, octal, hexadecimal numbers, Boolean logic, Venn diagrams, truth tables and set theory, relations, functions, and color sets.

CS 111 PROGRAMMING IN VISUAL BASIC**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

(Formerly CO SCI 108) The student learns program language terminology, the syntax, and semantics of an event-driven, object-oriented program language, how to solve problems from descriptions of the problem in English and how to translate problem solution descriptions to Visual Basic.

CS 112 PROGRAMMING IN JAVASCRIPT**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: CIS 148 or CO SCI 158****Advisory: CS 116 or CS 113 or CO SCI 139 or CO SCI 141**

(Formerly CO SCI 162) This course teaches web page development with JavaScript, reviews introductory JavaScript language features, and covers advanced topics including object-oriented programming, the Document Object Model (DOM), and touch and mobile interfaces. The course also teaches how to use regular expressions, closures, callbacks, namespaces, and the module pattern. Introduces JSON to transmit and store data.

CS 113 PROGRAMMING IN JAVA**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 101 or CS 111 or CO SCI 103 or CO SCI 108**

(Formerly CO SCI 141) Students learn the basics of procedural programming, plus the concepts of object-oriented programming.

CS 116 PROGRAMMING IN C++**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 101 or CS 111 or CO SCI 103 or CO SCI 108**

(Formerly CO SCI 139) The student learns topics including problem analysis and program design, simple data types, streams and file I/O, control structures, functions, arrays, and strings, emphasizing procedural programming with C++.

CS 119 PROGRAMMING IN PYTHON**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 101 or CS 111 or CO SCI 103 or CO SCI 108**

(Formerly CO SCI 124) Students will learn topics of the Python language such as data types, variables, control structures, Python objects and oriented design, standard and advanced mathematical libraries, tool-chain use and Python frameworks, user-defined classes and abstract collections, single and multidimensional arrays, Python lists, tuples, collections, and dictionaries.

CS 130 INTRODUCTION TO COMPUTER ARCHITECTURE AND ORGANIZATION**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: CS 113 or CS 116 or CO SCI 139 or CO SCI 141**

(Formerly CO SCI 117) The student learns about organization and operation of real computer systems at the assembly-language level, mapping statements and constructs in a high-level language onto sequences of machine instructions, the internal representations of simple data types and structures, basic principles of operating systems and programming language translation process, and the various data representation errors and potential procedural errors.

CS 131 DISCRETE STRUCTURES FOR COMPUTER SCIENCE**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 103 or CO SCI 104, MATH 125****Corequisite: CS 113 or CS 116 or CO SCI 139 or CO SCI 141**

(Formerly CO SCI 166) This course is an introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include functions, relations and sets, basic logic, proof techniques, basics of counting, graphs, trees, and discrete probability.

CS 136 INTRODUCTION TO DATA STRUCTURES**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 113 or CS 116 or CO SCI 139 or CO SCI 141**

(Formerly CO SCI 136) The student learns to apply complex data structures to the design of solutions to programming problems. The student learns to incorporate arrays, stacks, queues, dequeues, trees, and graphs in the design of programs with the highly desirable result that the programs produced thereby are more data driven, object oriented, and easily modified than designs that rely primarily on passing data among functions.

CS 137 PROGRAMMING IN PL/SQL FOR ORACLE**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: CIS 219 or CO SCI 186**

(Formerly CO SCI 198) The student learns the Oracle PL/SQL language which provides for programming logic features not contained within SQL. Also includes the grammar, syntax, and benefits of using the PL/SQL language within an Oracle database environment. The student creates and manages user-defined packages and Oracle supplied packages, plus creating functions and procedures to encapsulate business functionality. The skills to take an Oracle Developer Certification are provided.

CS 143 MOBILE APPLICATION DEVELOPMENT - ANDROID**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 113 or CO SCI 141**

(Formerly CO SCI 123) Students learn the art and practice of mobile application development for the Android operating system using Software Development Kit (SDK).

CS 144 MOBILE APPLICATION DEVELOPMENT - IOS**Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 116 or CO SCI 139**

(Formerly CO SCI 122) Students learn the art and practice of mobile application development for the Apple iOS operating system through the use of Xcode IDE and Swift.

CS 146 APPLE MOBILE APPLICATION DEVELOPMENT II**Units (Lec 3 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

Students will learn intermediate art and practice of mobile application development for the Apple iOS operating system through the use of Xcode IDE and Swift.

CS 147 APPLE MOBILE APPLICATION DEVELOPMENT III**4 Units (Lec 3 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CO SCI 139 or CO SCI 141**

Students will learn the art and practice of mobile application development for the Apple iOS operating system through the use of Xcode IDE and Swift.

CS 157 FULL-STACK WEB APPLICATION DEVELOPMENT**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 112 or CO SCI 162, CS 148 or CO SCI 158****Advisory: CS 113 or CS 116 or CO SCI 139 or CO SCI 141**

(Formerly CO SCI 159) Students learn about web development using current technology. Topics include NOSQL database, JavaScript and JSON, developing single page application using Angular, and using Express to handle web page routing. Topics are exemplified using the MEAN stack and students create a meaningful capstone project. Also covers creating websites and apps for mobile devices using Bootstrap and Ionic Framework.

CS 211 ADVANCED VISUAL BASIC PROGRAMMING**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 101 or CS 111 or CO SCI 103 or CO SCI 108**

(Formerly CO SCI 138) An advanced programming course in the Visual Basic .NET programming language with objects, classes, exception handling, GUI, DBMS, SQL, ASP.NET, data structures, and recursion.

CS 213 ADVANCED PROGRAMMING IN JAVA**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 101 or CO SCI 103, CS 113 or CO SCI 141**

(Formerly CO SCI 142) The student learns about UML, multithreading, networking, exception handling, recursion, files

& streams, JDBC, RMI, inheritance, and polymorphism. This course prepares a student to sit for the Sun Certified Java Programmer industry certification exam.

CS 216 OBJECT-ORIENTED PROGRAMMING IN C++ 3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: CS 116 or CO SCI 139

(Formerly CO SCI 140) The student learns object-oriented and advanced programming with C++ including classes, data abstractions, inheritance, composition, virtual functions, operators and functions overloading, templates, exception handling, recursion, pointers, dynamic data types, and linked lists.

COMPUTER INFORMATION SYSTEMS (CIS)

Note: Starting with the fall 2020 semester, all CO SCI courses are replaced with CS and CIS courses. The map below indicates the equivalent former CO SCI courses.

Course #	Computer Information Systems (CIS) Course	Formerly
CIS 101	INTRODUCTION TO COMPUTER AND THEIR USES	CO SCI 101
CIS 111	SUPPORTING WINDOWS DEKSTOPS	CO SCI 134
CIS 120	INTRODUCTION TO DATABASES	CO SCI 133
CIS 122	ADVANCED SPREADSHEET APPLICATIONS	CO SCI 148
CIS 126	ADOBE DREAMWEAVER (HTML WordPress CSS)	CO SCI 151
CIS 128	ADOBE FLASH	CO SCI 152
CIS 145	APPLE MOBILE APPLICATION DEVELOPMENT I	CO SCI 145
CIS 148	INTRODUCTION TO WEB DEVELOPMENT USING HTML AND CSS	CO SCI 158
CIS 151	ANDROID APPS INVENTOR	CO SCI 121
CIS 192	INTRODUCTION TO CLOUD COMPUTING	NONE
CIS 193	DATABASE ESSENTIALS IN AMAZON WEB SERVICES	NONE
CIS 194	COMPUTE ENGINES IN AMAZON WEB SERVICES	NONE
CIS 195	SECURITY IN AMAZON WEB SERVICES	NONE
CIS 219	INTRODUCTION TO ORACLE: SQL AND PL/SQL	CO SCI 186
CIS 220A	ORACLE DBA PART 1A: ARCHITECTURE AND ADMINISTRATION	CO SCI 187
CIS 220B	ORACLE DBA PART 1B: BACKUP AND RECOVERY	CO SCI 188
CIS 185	DIRECT STUDY - COMPUTER SCIENCE INFORMATION TECHNOLOGY	CO SCI 185
CIS 285	DIRECT STUDY - COMPUTER SCIENCE INFORMATION TECHNOLOGY	CO SCI 285

CIS 101 INTRODUCTION TO COMPUTERS AND THEIR USES

3 Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

(Formerly CO SCI 101) Students receive instruction in computer hardware, software, terminology, ethics, and social impact, as well as an overview of operating systems, word processing, spreadsheets, database management systems, and telecommunications and networks. A general computer literacy course open to all students. Credit not allowed if student has credit for CS 101 or CO SCI 103.

CIS 111 SUPPORTING WINDOWS DESKTOPS

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

(Formerly CO SCI 134) The student gains knowledge and skills necessary to install, plan, and maintain Windows. One of the four core required courses of Microsoft Windows Certified Systems Engineer (MCSE) certification. Prepares students for the related Microsoft exam.

CIS 120 INTRODUCTION TO DATABASES

3 Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

(Formerly CO SCI 133) Students learn the essential principles and concepts of microcomputer database environment. Includes a comprehensive examination of the functions of a database command language.

CIS 122 ADVANCED SPREADSHEET APPLICATIONS

3 Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

Prerequisite: CIS 101 or CS 101 or CO SCI 101 or CO SCI 103

(Formerly CO SCI 148) Students receive guidance in advanced spreadsheet operations, including nested functions, data tables, exporting/importing data, what-if-analysis, macro development, macros, logic, printing enhancements, and spreadsheet systems development.

CIS 126 ADOBE DREAMWEAVER

3 Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU, UC

Prerequisite: CS 111 or CO SCI 108

(Formerly CO SCI 151) The student receives an extensive practical and theoretical framework for using Adobe Dreamweaver to develop websites, including enhancements for web page layout, coding, webmaster-user interactivity, and server- and client-side scripting.

CIS 128 ADOBE FLASH

Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU, UC

Prerequisite: CIS 126 or CO SCI 151

(Formerly CO SCI 152) Students learn Adobe Flash, a state-of-the-art web animation software for creating highly-compact, vector-based content for transmission over the Internet. Topics presented include an introduction to ActionScript, event handlers, objects, and dynamic data.

CIS 145 APPLE MOBILE APPLICATION DEVELOPMENT I

Units (Lec 3 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Students will learn the introduction to application development using Swift/Xcode and will be taught within an IOS classroom environment.

CIS 148 INTRODUCTION TO WEB DEVELOPMENT HTML5 & CSS

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: CS 101 or CIS 101 or CO SCI 101 or CO SCI 103

(Formerly CO SCI 158) The student learns basic Internet concepts and technologies. The student learns to develop web sites by applying concepts like tables, layers, cascading styles sheets, frame sets, image maps, lists, forms, and dynamic content using basic JavaScript.

CIS 151 ANDROID APPS INVENTOR**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

(Formerly CO SCI 121) Students learn programming through the use of App Inventor to develop mobile applications for the Android operating system.

CIS 185 DIRECTED STUDY - COMPUTER INFORMATION SYSTEMS**1 Units (Lec 1 Hrs)****Transfer Credit: CSU**

(Formerly CO SCI 185) Computer science students pursue on their own an in-depth study of a subject of special interest in the field of computer science. Requires consultation with the instructor on a weekly basis, plus independent work.

CIS 192 INTRODUCTION TO CLOUD COMPUTING**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CS 101 or CO SCI 103**

This course introduces the fundamentals of cloud computing including the different cloud computing models: Infrastructure as a Service, Platform as a Service, and Software as a Service on the Amazon Web Services (AWS) platform. Includes a review of the basic concepts of server, networking, storage, and virtualization. Covers industry trends of computing, storage, and application migration to cloud computing. Advantages and disadvantages of cloud computing are examined. Cloud careers and industry demand for cloud computing skills are listed.

CIS 193 DATABASE ESSENTIALS IN AMAZON WEB SERVICES**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CIS 192**

This course introduces AWS' data storage services, including an introduction of AWS database technologies and AWS block and object-based storage services. Students learn the principles of database design and management, AWS SQL, and NoSQL database technologies. Students use principles of block and object-based storage options. Students study various use case scenarios for AWS data storage services. The hands-on lab allows students to apply the acquired knowledge.

CIS 194 COMPUTER ENGINES IN AMAZON WEB SERVICES**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CIS 192**

This course introduces Amazon Web Services computing related services. Students will learn the core computing technologies offered by Amazon Web Services. The computing services students learn computing models including Infrastructure as a Service, Platform as a Service, and Function as a Service or Micro-services. Students learn how to set up and manage computing services, auto scale computing services and configure computing load balancing. Students also learn how to code auto deployment scripts for the AWS infrastructure.

CIS 195 SECURITY IN THE CLOUD**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CIS 192**

This course explores Amazon Web Services security at both the AWS services layer and Amazon data center infrastructure layer. This course covers how Amazon Web Services

implements security measures in their global data center infrastructure. The course will also look at the AWS security shared responsibility model and how to use Amazon security and monitoring tool to ensure security in an AWS cloud infrastructure. The course provides an understanding of how AWS security tools can provide hardware, service, network and user activity monitoring, key management services, server and application firewall services, and an introduction to implementing private and public subnets.

CIS 219 INTRODUCTION TO ORACLE: SQL AND PL/SQL**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU**

(Formerly CO SCI 186) The student learns the concepts of both relational and object relational databases and the SQL language. The student learns about data server technology, how to create and maintain database objects, and how to store, retrieve, and manipulate data.

CIS 220A ORACLE DBA PART 1A: ARCHITECTURE AND ADMINISTRATION**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: CIS 219 or CO SCI 186**

(Formerly CO SCI 187) The student receives a firm foundation in basic administrative tasks and the necessary knowledge and skills to set up, maintain, and troubleshoot an Oracle database. The student learns to use an administration tool to startup and shutdown a database, manage file and database storage, and manage users and their privileges.

CIS 220-B ORACLE DBA PART 1B: BACKUP AND RECOVERY**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: CIS 220A or CO SCI 187**

(Formerly CO SCI 188) The student learns how to plan and implement database backup and recovery strategies. Examines backup and recovery techniques and database backup, failure, restore, and recovery scenarios. In hands-on exercises, the student examines backup methodologies based on the mission-critical requirements of business enterprises.

CIS 285 DIRECTED STUDY - COMPUTER SCIENCE-INFORMATION TECHNOLOGY**2 Units (Lec 2 Hrs)****Transfer Credit: CSU**

(Formerly CO SCI 285) Computer science students pursue on their own an in-depth study of a subject of special interest in the field of Computer Science. Requires consultation with the instructor on a weekly basis, plus independent work.

COMPUTER SCIENCE-INFORMATION TECHNOLOGY (CO SCI)

Note: Starting with the fall 2020 semester, all CO SCI courses are replaced with CS and CIS courses. Refer to the Computer Information Systems (CIS) and Computer Science (CS) sections for the course descriptions.

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CIS 101	INTRODUCTION TO COMPUTER AND THEIR USES	CO SCI 101
CIS 111	SUPPORTING WINDOWS DEKSTOPS	CO SCI 134
CIS 120	INTRODUCTION TO DATABASES	CO SCI 133
CIS 122	ADVANCED SPREADSHEET APPLICATIONS	CO SCI 148
CIS 126	ADOBE DREAMWEAVER (HTML WordPress CSS)	CO SCI 151
CIS 128	ADOBE FLASH	CO SCI 152
CIS 145	APPLE MOBILE APPLICATION DEVELOPMENT I	CO SCI 145
CIS 148	INTRODUCTION TO WEB DEVELOPMENT USING HTML AND CSS	CO SCI 158
CIS 151	ANDROID APPS INVENTOR	CO SCI 121
CIS 192	INTRODUCTION TO CLOUD COMPUTING	NONE
CIS 193	DATABASE ESSENTIALS IN AMAZON WEB SERVICES	NONE
CIS 194	COMPUTE ENGINES IN AMAZON WEB SERVICES	NONE
CIS 195	SECURITY IN AMAZON WEB SERVICES	NONE
CIS 219	INTRODUCTION TO ORACLE: SQL AND PL/SQL	CO SCI 186
CIS 220A	ORACLE DBA PART 1A: ARCHITECTURE AND ADMINISTRATION	CO SCI 187
CIS 220B	ORACLE DBA PART 1B: BACKUP AND RECOVERY	CO SCI 188
CIS 185	DIRECT STUDY - COMPUTER SCIENCE INFORMATION TECHNOLOGY	CO SCI 185
CIS 285	DIRECT STUDY - COMPUTER SCIENCE INFORMATION TECHNOLOGY	CO SCI 285

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CS 102	PROGRAMMING LOGIC AND DESIGN (INTRODUCTION TO PROGRAMMING)	CO SCI 107
CS 103	MATHEMATICS FOR PROGRAMMERS	CO SCI 104
CS 111	PROGRAMMING IN VISUAL BASIC	CO SCI 108
CS 211	ADVANCED VISUAL BASIC PROGRAMMING	CO SCI 138
CS 112	PROGRAMMING IN JAVASCRIPT	CO SCI 162
CS 113	PROGRAMMING IN JAVA (C-ID = 112 Intro to Programming)	CO SCI 141
CS 213	ADVANCED PROGRAMMING IN JAVA (C-ID = 122 Programming Concepts and Methodology I)	CO SCI 142
CS 116	PROGRAMMING IN C++ (C-ID = 112 Intro to Programming)	CO SCI 139
CS 216	OBJECT ORIENTED PROGRAMMING IN C++ (C-ID = 122 Programming Concepts and Methodology I)	CO SCI 140
CS 119	PROGRAMMING IN PYTHON	CO SCI 124
CS 130	INTRO TO COMPUTER ARCHITECTURE AND ORGANIZATION (C-ID = 142 Computer Architecture and Organization)	CO SCI 117
CS 131	DISCRETE STRUCTURES FOR COMPUTER SCIENCE (C-ID = 152 Discrete Structures)	CO SCI 166

CS	136	INTRODUCTION TO DATA STRUCTURES (C-ID = 132 Programming Concepts and Methodology II)	CO SCI 136
CS	137	PROGRAMMING IN PL/SQL FOR ORACLE	CO SCI 198
CS	143	MOBILE APPLICATION DEVELOPMENT - ANDROID	CO SCI 123
CS	144	MOBILE APPLICATION DEVELOPMENT - IOS	CO SCI 122
CS	146	APPLE MOBILE APPLICATION DEVELOPMENT II	CO SCI 146
CS	147	APPLE MOBILE APPLICATION DEVELOPMENT III	CO SCI 147
CS	157	FULL-STACK WEB APPLICATION DEVELOPMENT	CO SCI 159

COMPUTER TECHNOLOGY (CO TECH)

CO TECH 001 INTRODUCTION TO COMPUTERS FOR TECHNICIANS

Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

Advisory: ENGLISH 028, ENGLISH 067

In this first course in the computer technology major students learn the physical aspects of computer hardware and low-level programming.

CO TECH 002 INTRODUCTION TO ELECTRONICS

Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Students learn the basic concepts of electricity and applications of simple electronic components through introduction to the technological implications of electronics. The laboratory emphasizes skills in breadboarding and soldering and hands-on exposure to basic electronic principles.

CO TECH 004 INTRODUCTION TO COMPUTER NETWORKS

Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

The students gain basic understanding of networking technologies, the OSI model, methods of signaling and encoding, interfaces, modems, and transmission media; and examine the most important protocols involved in moving data over a communication network.

CO TECH 005 FUNDAMENTALS OF ELECTRONICS I

4 Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

Students learn the concepts of direct current circuits, including basics of electricity, series and parallel circuits, meters, batteries, resistors, and magnetism. The laboratory emphasizes skills in the analysis of circuits and the use of test equipment.

CO TECH 006 FUNDAMENTALS OF ELECTRONICS II

4 Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

The student receives a detailed study of alternating current theory and applications, including reactance, impedance, resonance, transformers, coupling, filters, bandpass, and time constants. The laboratory emphasizes skills in the use of test equipment in AC circuits.

CO TECH 007 ELECTRON DEVICES**4 Units (Lec 3 Hrs / Lab 3 Hrs)****Transfer Credit: CSU, UC**

The student learns the nature and operation of solid state devices including diodes, transistors, and field effect devices. Includes simple circuit applications.

CO TECH 012 INTRODUCTION TO COMPUTER HARDWARE**4 Units (Lec 3 Hrs / Lab 3 Hrs)****Transfer Credit: CSU**

Students learn technology of computer hardware such as microprocessor, RAM, BIOS/CMOS, motherboard, power supply, HDD, FDD, CD, DVD, video, sound, and printer; how these form a working system; and simple troubleshooting of PC systems. This course is one of two courses on the computer hardware and operation to prepare students for CompTIA A+ certification exam.

CO TECH 014 A-PLUS CERTIFICATION PREPARATION**4 Units (Lec 3 Hrs / Lab 3 Hrs)****Transfer Credit: CSU**

Students learn technology of Microsoft Windows operating systems, troubleshooting and maintenance of Windows, essentials of computer security, networking, Internet, and features of portable computers and mobile devices. This course is one of two courses on the computer hardware and operation to prepare students for CompTIA A+ certification exam.

CO TECH 015 NET-PLUS CERTIFICATION PREPARATION**Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CO TECH 004**

The students gain in-depth understanding of networking technologies and learn skills necessary to install, configure, and operate local and wide-area networks. They become prepared for the CompTIA Network+ certification exam.

CO TECH 016 SECURITY + CERTIFICATION PREPARATION**Units (Lec 3 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: CO TECH 004**

Students learn concepts of computer and network-security and gain skills necessary to apply knowledge of security concepts, tools, and procedures to react to security incidents, and guard against security risks. At the end of the course students are prepared for the CompTIA Security+ certification exam.

CO TECH 018 LINUX+ CERTIFICATION PREPARATION**4 Units (Lec 3 Hrs / Lab 3 Hrs)****Transfer Credit: CSU**

This course introduces the Linux operating system for the standard PC as outlined by CompTIA in order to prepare students for Linux + Certification. Topics include installation and configuration of the Linux operating system, GNU and Unix commands, file systems, scripting, GUIs, system services, network fundamentals, and essential troubleshooting techniques for operating systems and networks. Students will develop Linux administrative skills by creating and editing user groups, auditing system files, determining port status on a system, developing password protocols, and determining limits on user logins, processes, and memory usage.

CO TECH 019 MOBILITY+ CERTIFICATION PREPARATION**2 Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

Students learn concepts of mobile device and Wi-Fi technologies and gain skills necessary to apply knowledge of mobile, Wi-Fi, Bring Your Own Device (BYOD), and Internet of Things (IoT) infrastructure and security concepts, to react to security incidents and guard against security risks. At the end of the course students are prepared for the CompTIA Mobility+ certification exam.

CO TECH 020 COMPUTER LOGIC AND ARITHMETIC**4 Units (Lec 3 Hrs / Lab 3 Hrs)****Transfer Credit: CSU**

Students learn the essential number and logic theory upon which digital computers today are based, including principles and applications of logic devices used in digital systems, number systems, Boolean algebra, logic and truth tables, logic gates, and bistable devices.

CO TECH 025 CLOUD+ CERTIFICATION PREPARATION**Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

Students learn concepts of IT cloud computing infrastructure and systems and gain skills necessary to apply knowledge to implement, deploy, and support; configuration, optimization, services and virtualization in the cloud environment. Students will learn concepts of cloud computing for both the enterprise and SoHo environments. At the end of the course, students are prepared to take the CompTIA Cloud+ certification exam.

CO TECH 029 INTRODUCTION TO COMPUTER FORENSICS**Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

This course introduces the concept of computer forensics and how forensic techniques are used in the investigative process. Topics covered in this course include the analytical and investigative techniques to identify, collect, examine, and preserve evidence/information which is magnetically stored or encoded. Also covered is the recovery, analysis, and presentation of computer-based information in a way that ensures the integrity and security of data so that it can be used as evidence in a court of law.

CO TECH 030 INTRODUCTION TO MICROPROCESSORS**Units (Lec 3 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: CO TECH 020****Corequisite: CO TECH 036**

Students receive a survey of various microprocessor devices with an in-depth analysis of a selected microprocessor. Emphasis is placed on the architecture, instruction set, I/O interfacing, and typical applications of selected devices.

CO TECH 031 INTRODUCTION TO ETHICAL HACKING**Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

This course introduces the concept of ethical hacking and systems defense. Topics covered include security concepts, tools, and procedures in evaluating environments to identify, exploit, report, and recommend corrective actions to be taken in respect to threats and vulnerabilities. This course is

designed for students who wish to pursue certifications in the certified systems defense fields, including Certified Ethical Hacker (CEH).

CO TECH 036 DIGITAL DEVICES AND CIRCUITS

Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

Prerequisite: CO TECH 20

Students learn about digital integrated circuit devices such as registers, counters, encoder/decoders, multiplexer/demultiplexers, memory devices, and programmable logic arrays. Laboratory emphasizes use of dual-trace oscilloscope.

COMMUNICATION STUDIES (COMM)

COMM 100 INTRODUCTION TO COMMUNICATION STUDIES

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D) (IGETC Area 4), C-ID (COMM 115)

Advisory: ENGLISH 101

Students will explore the basic concepts of human communication as an academic field of study including history, assumptions, principles, processes, variables, methods, and specializations. Students will examine issues relevant to the systematic inquiry and pursuit of knowledge about human communication. Students will analyze basic concepts of communication and the skills necessary to communicate in various contexts.

COMM 101 PUBLIC SPEAKING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area A1), UC (IGETC Area 1C), C-ID (COMM 110)

C-ID (COMM 110)

Advisory: ENGLISH 101

Students study the theory and techniques of public speaking in a democratic society. Students will apply rhetorical principles to topic selection and audience analysis, research and reasoning of information, speech composition and outlining, presentation aids and delivery, and listening and evaluation of public discourse. Students practice effective communicative strategies for various types of original speeches including informative and persuasive speeches. Focus will be on developing credibility as a speaker and demonstrating confidence before an audience.

COMM 104 ARGUMENTATION AND DEBATE

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area A3), UC, C-ID (COMM 120)

Prerequisite: ENGLISH 101

Students explore methods of critical inquiry, advocacy, and argumentation. Students will analyze, present, and evaluate oral and written arguments, understand inductive and deductive reasoning, identify formal and informal fallacies in reasoning and language, test evidence and evidence sources, advance a reasoned position, and defend and refute arguments orally and in writing.

COMM 106 FORENSICS

Units (RPT 3) (Lab 7 Hrs)

Transfer Credit: CSU, C-ID (COMM 106 B)

Advisory: COMM 101 or COMM 130 or COMM 104

Students participate in competitive speaking in public address, interpretation, and/or debate as part of the LACC Forensics Team. Students develop the skills to research and prepare for intercollegiate forensics tournaments outside of regularly

scheduled class hours. Students practice effective verbal and nonverbal communicative techniques, develop speaker credibility, and demonstrate confidence before an audience.

COMM 111 VOICE AND ARTICULATION

Units (Lec 3 Hrs)

Transfer Credit: CSU

Students study methods of voice development and demonstrate improved speech production. Focus will be on the respiration process, phonation, resonance, and articulation and their coordination in pronunciation and effective vocal expression. Students practice accuracy of sound production for Standard American English through use of the International Phonetic Alphabet. This course is suited for any major or career where speaking clearly is a requirement.

COMM 121 INTERPERSONAL COMMUNICATION

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area A1,D), UC (IGETC Area 1C,4), C-ID (COMM 130)

Students explore communication in a variety of interpersonal relationships. Students will study communication behaviors in dyads (pairs) and their impact on personal and professional relationships, developing effective communication skills in areas such as verbal and nonverbal communication, listening, emotional intelligence, and conflict management.

COMM 122 INTERCULTURAL COMMUNICATION

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (COMM 150)

Advisory: COMM 121, ENGLISH 101

Students analyze dynamics of culture within a variety of communication contexts. Students will explore cultural worldviews and values, verbal and nonverbal communication styles, and barriers to intercultural communication. Focus will be on recognizing and appreciating cultural differences and improving intercultural communication competence for more effective interactions with others in a diverse society.

COMM 130 INTRODUCTION TO ORAL INTERPRETATION OF LITERATURE

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC, C-ID (COMM 170)

Students study the theory, principles, and techniques of oral interpretation of literature. Texts include prose, poetry, drama, and other forms of performance text drawn from a diverse range of cultural viewpoints and voices. Students will focus on selection, analysis, editing, performance, and evaluation; and developing an appreciation for and an understanding of oral interpretation as a communication medium.

COMM 151 SMALL GROUP COMMUNICATION

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area A1), UC (IGETC Area 1C), C-ID (COMM 140)

Students study the theory, principles, application, and evaluation of group communication processes. Students learn effective problem-solving, decision-making, and conflict management techniques, including the development of individual leadership skills. Focus will be on collaborative learning that can be achieved by responsible group participation.

COMM 185 DIRECTED STUDY- COMMUNICATION STUDIES**1 Units (RPT 2) (Lec 1 Hrs)****Transfer Credit: CSU****Prerequisite: COMM 101, COMM 104, COMM 121**

Students independently pursue research of specific topics in Communication Studies as a directed study on a contract basis under the direction of a supervising instructor.

COMM 190 COMMUNICATION AND NEW MEDIA**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D) (IGETC Area 4), C-ID (JOUR 100)****Advisory: ENGLISH 101**

This course introduces computer-mediated communication. Students examine how the Internet, popular culture, social media, websites, blogs, YouTube, and social networks have reshaped communication practices. The course offers an overview of relevant theories and critical issues while providing students with the opportunity to apply communication skills using new media.

COMM 285 DIRECTED STUDY - COMMUNICATION STUDIES**Units (Lec 2 Hrs)****Transfer Credit: CSU****Prerequisite: COMM 101, COMM 104**

Students independently pursue research of specific topics in Communication Studies as a directed study on a contract basis under the direction of a supervising instructor.

COMM 385 DIRECTED STUDY-COMMUNICATION STUDIES**Units (Lec 3 Hrs)****Transfer Credit: CSU****Prerequisite: COMM 101, COMM 104**

Students independently pursue research of specific topics in Communication Studies as a directed study on a contract basis under the direction of a supervising instructor.

COOPERATIVE EDUCATION (COOP ED)**COOP ED 195 WORK EXPERIENCE - GENERAL I****1 Units (Lec 1 Hrs)****Transfer Credit: CSU**

Students receive college credit for supervised employment intended to assist students in acquiring desirable work habits, attitudes, and career awareness. Topics include preparing for the changing job market, writing applications and resumes, communication skills, and awareness of on-the-job relations with other employees, supervisors, and the general public. The work experience need not be related to the student's educational goals. Students must work 75 paid hours or 60 volunteer hours during the semester.

COOP ED 196 WORK EXPERIENCE - GENERAL II**Units (Lec 1 Hrs)**

Students receive credit for an approved internship with an employer in a field that is not their college major.

COOP ED 295 WORK EXPERIENCE - GENERAL I**Units (Lec 2 Hrs)****Transfer Credit: CSU**

Students receive supervised employment intended to assist them in acquiring desirable work habits, attitudes, and career awareness. Topics include preparing for the changing job market, writing applications and resumes, communication skills, and awareness of on-the-job relations with other employees, supervisors, and the general public. The work experience need not be related to the student's educational goals. Students must work 150 paid hours or 120 volunteer hours during the semester.

COOP ED 296 WORK EXPERIENCE - GENERAL II**Units (Lec 2 Hrs)**

Students receive credit for an approved internship with an employer in a field that is not their college major

COOP ED 395 WORK EXPERIENCE - GENERAL I**Units (Lec 3 Hrs)****Transfer Credit: CSU**

This course grants college credit for supervised employment intended to assist students in acquiring desirable work habits, attitudes and career awareness. Topics include preparing for the changing job market, writing applications and resumes, communication skills, and awareness of on-the-job relations with other employees, supervisors, and the general public. The work experience need not be related to the student's educational goals. Students must work 225 paid hours or 180 volunteer hours during the semester.

COOP ED 396 WORK EXPERIENCE - GENERAL II**3 Units (Lec 3 Hrs)**

Students receive credit for an approved internship with an employer in a field that is not their college major.

CORRECTIONS (CORR)**CORR 001 INTRODUCTION TO CORRECTIONS****3 Units (Lec 3 Hrs)****Transfer Credit: CSU, C-ID (AJ 200)**

Students learn 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.

COUNSELING (COUNSEL)**COUNSEL 020 POST-SECONDARY EDUCATION: THE SCOPE OF CAREER PLANNING****3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area E)**

This course is designed for students who are undecided about their pathways, career, and/or educational goals. It is a hands-on and interactive career planning process that includes the following topics: self-exploration, clarification on values, interest and skills analysis, researching career options,

interviewing skills, decision making, and goal setting process. Counselors will assist students in creating an educational plan based on major and career pathways.

COUNSEL 022 THE TRANSFER PROCESS

1 Units (Lec 1 Hrs)
Transfer Credit: CSU

This course is an introduction to the transfer process. It is designed to enable students to become active participants in planning their long-term educational goals. Student will gain an understanding of the process and the requirements for transferring to a four-year college or university. These goals will enable the student to develop an educational plan geared towards transfer, which will prepare them to apply to a transfer institution. The course will consist of lecture, use of online resources, guest speakers, and student assignments.

COUNSEL 040 COLLEGE SUCCESS SEMINAR

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students explore issues related to higher education that contribute to student success. Topics will include an overview of academic success skills, value and purpose of higher education, college and district policies and procedures, ethics and responsibility, diversity in higher education, educational strategies and planning, interpersonal communication, career development, health issues, and self-assessment techniques.

COUNSEL 040A COLLEGE SUCCESS SEMINAR

1 Units (Lec 1 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students explore issues related to higher education that contribute to student success. Topics include an overview of orientation to higher education, college and district policies and procedures, ethics in higher education, college resources, general education, certificates, and graduation and transfer requirements.

COUNSEL 040B COLLEGE SUCCESS SEMINAR

1 Units (Lec 1 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students explore issues related to higher education that impact student success including personal values, goals, career and decision making, time/task management and academic success skills, which include study-groups, effective reading, memorizing, note-taking, and test-taking techniques.

COUNSEL 040C COLLEGE SUCCESS SEMINAR

1 Units (Lec 1 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students explore issues related to higher education that impact student success. Topics include career exploration, educational planning, learning preferences and theory, diversity, health issues, and interpersonal communication.

DANCE STUDIES (DANCEST)

DANCEST 185 DIRECTED STUDY - DANCE

1 Units (Lec 1 Hrs)
Transfer Credit: CSU

Students pursue directed study in Dance on a contractual basis under the direction of a supervising instructor.

DANCEST 301 CHOREOGRAPHY I

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 141 or DANCETQ 111 or DANCETQ 121

Students choreograph and perform dances with emphasis on energy space and time using basic steps and combinations, spacing, design, terminology, and music. Students learn an appreciation of dance as a performing art form.

DANCEST 302 CHOREOGRAPHY II

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCEST 301

Students choreograph and perform dances with a minimum of two people with emphasis on basic steps and combinations, spacing, design, terminology, music, and appreciation of dance as a performing art form.

DANCEST 303 CHOREOGRAPHY III

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCEST 302

Students choreograph and perform dances using at least three people with an emphasis on clear intention of dance, energy, space, and time, using basic, intermediate, or advanced steps and combinations, design, proper terminology, music, internal or external rhythms, themes and variations in dynamics, contrasts, and direction. Students develop a greater appreciation and understanding of the tools necessary to create the dance as a performing art form.

DANCEST 304 CHOREOGRAPHY IV

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCEST 303

Students choreograph and perform dances for four or more people with emphasis on more advanced phrasing of movement combination spacing, design, terminology, music, an appreciation of dance as a performing art form, and the ability to view dance critically.

DANCEST 805 HISTORY AND APPRECIATION OF DANCE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)
Advisory: ENGLISH 028, ENGLISH 067

Students learn a historical perspective of dance from ritual to contemporary theatrical dance forms focusing on the ethnic, cultural, and ritual forms of dance as it affects and reflects the world in which people live. Primarily, students focus on how dance reflects the historical, social, and political climate of the day. Students consider the impact of dance on the western world and how it has been affected by the different dance traditions worldwide.

DANCEST 814 DANCE PRODUCTION I

2 Units (RPT 2) (Lec 1 Hrs / Lab 2 Hrs)
Transfer Credit: CSU
Prerequisite: DANCEST 301 or DANCEST 822
Advisory: DANCETQ 111 or DANCETQ 121 or DANCETQ 141, ENGLISH 021

Students learn methods and techniques involved in producing a dance concert, including choreographic applications, rehearsal management, scheduling, lighting, costuming, publicity, audition and performance skills, dance critique, and assessment. Students develop the skills necessary to direct,

choreograph, and produce dance pieces for a variety of audiences. Involves rehearsing dancers and production duties for non-dancers.

DANCEST 822 DANCE REHEARSALS AND PERFORMANCES I

1 Units (RPT 3) (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E)

Advisory: DANCETQ 111 or DANCETQ 121 or DANCETQ 141 or DANCETQ 311 or DANCETQ 321 or DANCETQ 331, ENGLISH 021

Students utilize their technical dance knowledge to develop an understanding of dance as a performing art. Students participate as performers in the student dance concert.

DANCE TECHNIQUES (DANCETQ)

DANCETQ 111 BALLET TECHNIQUES I

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students learn basic ballet steps and combinations at an introductory level, terminology, music, and appreciation of dance as a performing art.

DANCETQ 112 BALLET TECHNIQUES II

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 111

Students continue to learn basic ballet steps and combinations, terminology, music, and appreciation of dance as a performing art.

DANCETQ 113 BALLET TECHNIQUES III

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 112

Students learn more complex ballet steps and combinations, terminology, music, and appreciation of dance as a performing art.

DANCETQ 114 BALLET TECHNIQUES IV

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 113

Students perform several ballet combinations with an emphasis on basic steps and combinations, terminology, music, and appreciation of dance as a performing art form.

DANCETQ 121 JAZZ DANCE TECHNIQUES I

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students learn beginning jazz dance technique with an emphasis on basic steps, combinations, terminology, music, and appreciation of dance as a performing art form.

DANCETQ 122 JAZZ DANCE TECHNIQUES II

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 121

Students learn elementary jazz dance technique with an emphasis on basic elementary level steps, combinations, terminology, music, and appreciation of dance as a performing art form.

DANCETQ 123 JAZZ DANCE TECHNIQUES III

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 122

Students learn intermediate jazz dance technique with an emphasis on intermediate level steps, combinations, terminology, music, and appreciation of dance as a performing art form.

DANCETQ 124 JAZZ DANCE TECHNIQUES IV

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 123

Students learn advanced jazz dance technique with an emphasis on advanced level steps, combinations, terminology, music, and appreciation of dance as a performing art form.

DANCETQ 141 MODERN DANCE TECHNIQUES I

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students learn basic modern dance steps and combinations, terminology, music, and appreciation of dance as a performing art.

DANCETQ 142 MODERN DANCE TECHNIQUES II

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 141

Students learn and review basic modern dance steps and combinations, terminology, music, and appreciation of dance as a performing art.

DANCETQ 143 MODERN DANCE TECHNIQUES III

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 142

Students will review basic and intermediate concepts and terminology in modern dance and perform modern dance combinations with an emphasis on steps and combinations of greater complexity and duration with continued appreciation of dance as a performing art.

DANCETQ 144 MODERN DANCE TECHNIQUES IV

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 143

Students perform advanced level modern dance combinations with emphasis on complexity in dance technique, rhythmic phrasing, duet and multi-partner collaborations, demonstrating clarity of detail and body connectivity. Students refine techniques of personal artistry, musicality, and performance and display deeper understanding and appreciation of dance as a performing art form.

DANCETQ 221 YOGA SKILLS I

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students learn the beginning level physical practice of yoga, connecting body, mind, and spirit. The students are introduced to its origins, asanas (positions), and terminology.

DANCETQ 222 YOGA SKILLS II

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: DANCETQ 221

Students learn the physical practice of yoga, connecting body, mind, and spirit. The students are introduced to its origins, asanas (positions), and terminology.

DANCETQ 223 YOGA SKILLS III**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: DANCETQ 222**

Intermediate-level students deepen their understanding and strengthen their physical practice of Yoga, connecting body, mind, and spirit. Students perform harder positions, longer flow/vinyasa sequences, maintain balance and inversion postures for extended periods, and gain greater knowledge of the philosophical principles of the yoga system.

DANCETQ 224 YOGA SKILLS IV**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: DANCETQ 223**

Advanced-level students intensify their understanding and performance of yoga asanas, develop a personal practice, and apply knowledge of the philosophical principles of the yoga system to real-life. Connecting body, mind, and spirit, students perform challenging positions, in standing/seated inversions and extended flow/vinyasa sequences.

DANCETQ 231 CONDITIONING FOR DANCE I**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E)**

Students will learn a variety of exercise techniques, philosophies, and somatic strategies to help them establish a conditioning program they can use to improve fitness as it applies to dance technique. Introductory level exercises and information are geared specifically for dance technique training, and are drawn from a number of different sources including: Pilates, gyrotomics, Franklin Method, Swissphysio ball work, myo-fascial rollers, somatic body therapies, and other dance conditioning practices.

DANCETQ 241 STRESS MANAGEMENT TECHNIQUES THROUGH DANCE AND MOVEMENT**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn techniques for managing stress through movement, dance therapy, dance meditation, authentic movement studies, breathing exercises, yoga, physical therapy, and varied relaxation exercises.

DANCETQ 242 STRESS MANAGEMENT TECHNIQUES THROUGH DANCE AND MOVEMENT II**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 249 I or DANCETQ 241**

Students learn additional techniques for managing stress through movement, dance therapy, dance meditation, authentic movement studies, breathing exercises, yoga, physical therapy, and varied relaxation exercises.

DENTAL TECHNOLOGY (DEN TEK)**DEN TEK 100 INTRODUCTION TO THE DENTAL LABORATORY****Units (Lab 2 Hrs)****Corequisite: DEN TEK 101**

Students learn the steps in producing functional dental models required in the construction of dental prosthetic restorations.

DEN TEK 101 ELEMENTS OF DENTAL TECHNOLOGY**Units (Lec 2 Hrs)****Corequisite: DEN TEK 100**

The student learns about the Dental Prosthodontics Technology profession, history, specialties, and employment opportunities. The student learns the sequence of steps in the construction of a functional removable die cast model.

DEN TEK 102 DENTAL ANATOMY AND TERMINOLOGY**Units (Lec 3 Hrs)****Advisory: ENGLISH 028, ENGLISH 067**

The student learns about dental terminology, the function of the oral cavity, primary and secondary human dentition, tooth morphology and function, and anatomical landmarks. The importance of tooth supporting structures anatomy and histology, as well as human skull osteology and myology, is stressed.

DEN TEK 103 REMOVABLE PROSTHODONTICS I**5 Units (Lec 3 Hrs / Lab 5 Hrs)****Prerequisite: DEN TEK 102, DEN TEK 100****Corequisite: DEN TEK 285**

Students learn the art and science of creating natural looking complete dentures by using PTC techniques and methodology. The course includes: dental anatomy, concepts of a natural smile, selecting and setting denture teeth in balanced occlusion, duplication of natural tissue, and processing, finishing and polishing complete dentures according with established clinical standards, and an introduction to digital dentistry.

DEN TEK 105 REMOVABLE PROSTHODONTICS II**5 Units (Lec 3 Hrs / Lab 6 Hrs)****Prerequisite: DEN TEK 103****Corequisite: DEN TEK 285**

The student learns about the design and construction of maxillary complete dentures opposing a mandibular overdenture, including the science of prescribed materials. Students learn how to relined and repair complete dentures, immediate maxillary denture, and wrought wire mandibular stay plate.

DEN TEK 106 DENTAL MATERIALS**3.5 Units (Lec 3 Hrs / Lab 1 Hrs)****Prerequisite: DEN TEK 100**

Students learn by lecture, demonstration, and experiment the physical properties and chemical composition of dental materials, including their uses in dentistry.

DEN TEK 108 GNATHOLOGICAL CONCEPTS**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Prerequisite: DEN TEK 109**

Students learn about gnathological concepts of morphology, functional occlusion of oral cavity, and principles of ideal and functional contacts. Organic waxing of the maxillary and mandibular teeth occlusal surfaces is accomplished on semi-adjustable articulators.

DEN TEK 109 FIXED PROSTHODONTICS I**Units (Lec 2 Hrs / Lab 8 Hrs)****Prerequisite: DEN TEK 100, DEN TEK 102****Corequisite: DEN TEK 285****Advisory: ENGLISH 028**

The student learns to apply the principles of dental morphology and functional occlusion to single anterior and posterior teeth by applying analogue and digital applications.

DEN TEK 111 FIXED PROSTHODONTICS II**Units (Lec 3 Hrs / Lab 6 Hrs)****Prerequisite: DEN TEK 109**

Students learn to wax single and multiple units by using PTC techniques and methodology based on student learning outcomes. Learning and understanding concepts such as tooth contour alignment, functional and morphological occlusion. Students learn fundamental concepts in metal and ceramic substructure designs applied to single units. Students learn techniques in spruing, investing, and casting including soldering applications.

DEN TEK 112 REMOVABLE PROSTHODONTICS III**6 Units (Lec 4 Hrs / Lab 6 Hrs)****Prerequisite: DEN TEK 105**

The student learns removable partial denture construction, both analog and digital, from start to finish. The course consists of two sections: framework production and replacement teeth addition to the framework. The first section will consist of the use of the dental surveyor, design of the partial denture framework, waxing, casting cobalt-chromium alloy, and finishing and polishing the framework. The second section will consist of replacement tooth set-up, wax-up, processing, equilibration, and finish and polish.

DEN TEK 185 DIRECTED STUDY - DENTAL TECHNOLOGY**1 Units (RPT 2) (Lec 1 Hrs)**

Dental Prosthetic Technology students pursue directed study on a contract basis under the direction and supervising of the instructor. The students will receive additional evaluation and guidance in the skills and theory learning steps underlying Advanced Restorative Prosthodontics courses, level III and IV.

DEN TEK 202 LABORATORY MANAGEMENT**4 Units (Lec 2 Hrs / Lab 6 Hrs)****Corequisite: DEN TEK 208**

Students learn to observe and work under the supervision of a skilled dental technician in a dental clinic or dental laboratory where they have the opportunity to apply the knowledge and skills learned. Students learn about production, operation, and management of dental laboratory business including the ethics, jurisprudence, safety regulations, and infection control protocols. Topics include human resource management, types of business financing, marketing strategies, entrepreneurship, and current professional topics.

DEN TEK 203 CERAMIC RESTORATIONS**Units (Lec 1 Hrs / Lab 3 Hrs)****Prerequisite: DEN TEK 111**

The student learns about dental ceramic restorations, including: materials properties and manipulation, tooth morphologic design, feldspathic materials sintering, contouring staining, glazing, and polishing, as well as science of color and aesthetic design.

DEN TEK 204 ORTHODONTICS**Units (Lec 2 Hrs / Lab 2 Hrs)****Prerequisite: DEN TEK 105**

The student learns about the principles of construction and repair of orthodontic and pedodontic appliances. Emphasis is placed on pouring and trimming orthognathic study casts, wire bending techniques, soldering and welding techniques, and fabrication of various types of orthodontic appliances.

DEN TEK 206 FIXED PROSTHODONTICS III**6 Units (Lec 2 Hrs / Lab 8 Hrs)****Prerequisite: DEN TEK 111, DEN TEK 108**

This is an advanced course in the Fixed Prosthodontics specialty. Students learn about the science of materials, gnathological concepts, prosthetic framework design techniques, and technologies applied in the restorative prosthodontics procedures in alignment with clinical acceptable standards.

DEN TEK 207 REMOVABLE PROSTHODONTICS IV**6 Units (Lec 3 Hrs / Lab 7 Hrs)****Prerequisite: DEN TEK 105, DEN TEK 112**

This is an advanced course in Removable Prosthodontics Specialty. This course incorporates advanced removable dentures design, materials science, and manufacturing techniques.

DEN TEK 208 FIXED PROSTHODONTICS IV**6 Units (Lec 3 Hrs / Lab 7 Hrs)****Prerequisite: DEN TEK 206**

This is an advanced course in the Fixed Prosthodontics specialty, level four. This course incorporates advanced ceramic restorations analysis, design, and manufacturing techniques, including science of materials and their applications. Students learn the methodology of feldspathic porcelain powders application techniques as it applies to single and multiple units, by incorporating the proper morphologic, functional and optical values. Digital technology is an integral part of the course instructions and applications.

DEN TEK 285 DIRECTED STUDY - DENTAL TECHNOLOGY**2 Units (RPT 1) (Lec 2 Hrs)**

Dental Prosthetic Technology students pursue directed study on a contract basis, under the direction and supervising of the instructor. Students receive additional evaluation and guidance in the skills and theory learning steps underlying fixed and removable Prosthodontics courses, level I and II.

DEN TEK 304 DIGITAL TECHNOLOGIES APPLICATIONS IN ADVANCED PROSTHODONTICS I**8 Units (Lec 4 Hrs / Lab 11 Hrs)****Prerequisite: DEN TEK 208 or Proof of certification or Dental prosthetic technology field experience**

Students learn to evaluate, plan, scan, design, and process complex advanced fixed prosthodontics cases, including multiple units restorations, frames and full contours bridges, implant restorations, and combination cases. Students complete clinically acceptable prosthetic restorations, where the coordination between function and esthetics is fully maximized.

DEN TEK 401 DENTAL IMPLANTS**4 Units (Lec 2 Hrs / Lab 6 Hrs)****Prerequisite: DEN TEK 207**

Students learn about dental implants including history, surgical overview, types of implants and implant restorations, case planing, prosthodontic procedures, laboratory procedures, restorative materials, and case finalization.

DEN TEK 403 DIGITAL TECHNOLOGIES APPLICATIONS IN ADVANCED PROSTHODONTICS II**8 Units (Lec 4 Hrs / Lab 8 Hrs)****Prerequisite: DEN TEK 401 or Proof of certification or dental prosthetic technology field experience**

Students learn to evaluate, plan, scan, design, and process complex advanced removable prosthodontics cases, including

partial dentures and implant over dentures. Students complete clinically acceptable prosthetic restorations, where the coordination between function and esthetics is fully maximized.

DANCE SPECIALTIES (DNCESPC)

DNCESPC 311 FLAMENCO AND SPANISH DANCE

1 Units (Lab 2 Hrs)

Transfer Credit: CSU, UC

Students learn basic flamenco and Spanish dance with an emphasis on correct posture, individual steps, arm movements, terminology, various rhythms, and basic step combinations.

DNCESPC 312 FLAMENCO AND SPANISH DANCE II

1 Units (Lab 2 Hrs)

Transfer Credit: CSU

Students learn intermediate level flamenco and Spanish dance skills with an emphasis on correct posture, individual steps, arm movements, terminology, various rhythms, and step combinations.

DNCESPC 321 SOCIAL DANCE TECHNIQUES I

1 Units (Lab 2 Hrs)

Transfer Credit: CSU, UC

Students learn basic social dance steps and combinations, terminology, music, and appreciation of dance as an art form.

DNCESPC 331 TAP DANCE TECHNIQUES I

1 Units (Lab 2 Hrs)

Transfer Credit: CSU, UC

Students learn basic tap dance steps and combinations, terminology, music, and appreciation of dance as an art form.

ENGLISH AS A SECOND LANGUAGE (E.S.L.)

E.S.L. 004A COLLEGE ESL IV: WRITING AND GRAMMAR

6 Units (Lec 6 Hrs)

Prerequisite: ESL 003A or Placement in E.S.L. 004A

Advisory: E.S.L. 004B or ESL 004C

Intermediate ESL students develop the writing skills needed to compose effective academic paragraphs and short essays. Students learn techniques for organizing and developing content as well as revising and editing for clarity. Students improve their ability to write well-formed sentences, use verb tenses accurately in context, and choose appropriate vocabulary to convey their ideas.

E.S.L. 004B COLLEGE ESL IV: READING AND VOCABULARY

3 Units (Lec 3 Hrs)

Prerequisite: ESL 003B or Placement in E.S.L. 004B

Advisory: E.S.L. 004A or ESL 004C

Intermediate ESL students read, discuss, and write about textbook passages, novels, and/or short stories, to improve their reading fluency and comprehension, develop reading skills and strategies, and expand their active vocabulary. This course helps students become more effective readers as they read and respond to a variety of texts.

E.S.L. 005A COLLEGE ESL V: WRITING AND GRAMMAR

6 Units (Lec 6 Hrs)

Transfer Credit: CSU

Prerequisite: E.S.L. 004A or Placement in E.S.L. 005A

Advisory: E.S.L. 005B or ESL 005C

High-intermediate ESL students learn how to write the standard academic essay. This course provides students with ample practice in organizing, drafting, revising, and editing multi-paragraph compositions. Students develop paraphrasing and summarizing skills, continue to build their mastery of sentence-level grammar, and expand their academic vocabulary to effectively and confidently express themselves in writing.

E.S.L. 005B COLLEGE ESL V: READING AND VOCABULARY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Prerequisite: E.S.L. 004BA or Placement in E.S.L. 005B

Advisory: E.S.L. 005A or ESL 005C

High-intermediate ESL students read, summarize, and analyze nonfiction texts, novels, and/or short stories to improve their reading fluency and comprehension, develop critical thinking and reading skills, and acquire academic vocabulary. This course builds the foundation for successfully understanding and responding to academic texts.

E.S.L. 006A COLLEGE ESL VI: WRITING AND GRAMMAR

6 Units (Lec 6 Hrs)

Transfer Credit: CSU

Prerequisite: E.S.L. 005A or Placement in E.S.L. 006A

Advisory: E.S.L. 006B or 006C

Low-advanced ESL students refine their writing skills by composing well-developed formal essays. Students develop critical reading skills and learn how to integrate the ideas of others in their own writing. Students are introduced to appropriate citation and basic bibliographic conventions as they practice paraphrasing, summarizing, and quoting sources. This course emphasizes the use of standard English, academic vocabulary, and self-editing, and it lays the foundation for future coursework in English and other academic subjects.

E.S.L. 006B COLLEGE ESL VI: READING AND VOCABULARY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Prerequisite: E.S.L. 005B or Placement in E.S.L. 006B

Advisory: E.S.L. 006A or ESL 006C

Low-advanced ESL students read, summarize, and analyze nonfiction texts, novels, and/or plays to improve their reading fluency and comprehension, develop critical thinking and reading skills, and expand their academic vocabulary. This course prepares students for college-level coursework in English and other academic subjects.

E.S.L. 008 ADVANCED ESL COMPOSITION

6 Units (Lec 6 Hrs)

Transfer Credit: CSU, UC

Prerequisite: E.S.L. 006A or Placement in E.S.L. 008

Advanced ESL students prepare for ENGLISH 101 and college-level work across the curriculum. Emphasis is placed on writing formal academic papers which summarize, analyze, and synthesize outside sources. Students learn how to effectively conduct library research and use MLA citation

and bibliographic conventions in their own writing. Grammar instruction consists of a review of advanced topics with an emphasis on self-editing.

EARTH SCIENCE (EARTH)

EARTH 001 EARTH SCIENCE

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1), UC (IGETC Area 5A)

Advisory: ENGLISH 028, ENGLISH 067

Students learn a general introduction to the study of earth's rocks, landforms, atmosphere, and oceans. Students learn interrelationships between the land, atmosphere, and oceans and relate these subjects to global climate change.

ECONOMICS (ECON)

ECON 001 PRINCIPLES OF ECONOMICS I

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (ECON 201)

Advisory: ENGLISH 028, ENGLISH 067, MATH 125

Students learn the principles and methods of economic analysis; topics include the analysis of the laws of supply and demand, price theory, economic analysis of the firm and resource allocation, market structures of the American economy, and other topics relevant to microeconomic analysis.

ECON 002 PRINCIPLES OF ECONOMICS II

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (ECON 202)

Advisory: ENGLISH 028, ENGLISH 067, MATH 125

Students learn the principles and methods of aggregative macroeconomic analysis. Topics include money and banking, national income determination, business fluctuations, and other topics relevant to macroeconomic analysis.

EDUCATION (EDUC)

EDUC 001 INTRODUCTION TO TEACHING

Units (Lec 3 Hrs)

Transfer Credit: CSU

Advisory: ENGLISH 028

This course introduces students to the field of professional education and the concepts and issues that are related to TK - 12 education. Topics of this course include a basic understanding of a teacher's role and challenges in society, contemporary education issues within historical, social, philosophical, legal, and political contexts, impact of government policies on schools and children, and the various perspectives on curriculum and instruction.

ENGINEERING, ELECTRICAL (ENG ELC)

ENG ELC 220 ELECTRICAL CIRCUITS I

Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU, UC, C-ID (ENGR 260 and 260L)

Prerequisite: PHYSICS 102

Corequisite: MATH 275

Students learn the theory of circuit analysis and practice its application to areas of importance in electrical engineering such as DC, AC, operational amplifiers, multi-phase power, and frequency response. Students also perform laboratory exercises to learn how to realize circuit designs using electronic components and to use instruments such as multimeters, oscilloscopes, and signal generators.

ENGINEERING, GENERAL (ENG GEN)

ENG GEN 101 INTRODUCTION TO SCIENCE, ENGINEERING AND TECHNOLOGY

2 Units (Lec 2 Hrs)

Transfer Credit: CSU, UC

Students learn about the engineering method and strategies for academic and career success in engineering. Students are introduced to mechanical, civil, electrical, and computer systems engineering through project work. The vast range disciplines and opportunities in engineering are presented. Students are guided through challenging design exercises to develop skills in planning, communication, team working, and creativity. Only basic mathematics skills are required.

ENG GEN 120 INTRODUCTION TO PROGRAMMING CONCEPTS AND METHODOLOGIES FOR SCIENTISTS AND ENGINEERS

4 Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MATH 260

Students learn the fundamentals of the 'C' computer programming language through completing hands-on projects involving sensors, motors, and displays. Students also learn how to interface hardware to a desktop computer or laptop. The course provides transfer preparation in computer programming for science and engineering majors.

ENG GEN 131 STATICS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU, UC, C-ID (ENGR 130)

Prerequisite: PHYSICS 101

The student learns how to apply vector analysis of forces and moments to determine the equilibrium conditions in trusses, frames, and machines. The course also covers center of mass, centroids, friction, and moment of inertia.

ENG GEN 151 MATERIALS OF ENGINEERING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU, UC, C-ID (ENGR 140)

Prerequisite: CHEM 101, PHYSICS 101

The student learns how the properties of materials are related to atomic and crystal structure and how processing influences structure and hence properties. Topics include atomic structure and bonding, crystalline structures, phases and phase diagrams, metals, polymers, ceramics, composites, mechanical deformation, fracture, and electrical and magnetic properties.

ENG GEN 153 MATERIALS OF ENGINEERING LABORATORY**1 Units (Lab 3 Hrs)****Transfer Credit: CSU, UC****Prerequisite: ENG GEN 151****Corequisite: ENG GEN 151**

The student learns experimental techniques, including the operation of standard materials testing equipment, to measure material performance and analyze experimental data in the context of the theories within materials science. The laboratory exercises relate to a range of materials science areas including: mechanical testing, heat treatment, crystal structures, phase diagrams, thermal properties, electrical properties, and forming operations. Students gain experience of working with metals, polymers, ceramics, and composites. The course provides transfer preparation for majors in Mechanical, Aerospace, Manufacturing, and Civil Engineering.

ENG GEN 212 INTRODUCTION TO ENGINEERING DESIGN**3 Units (RPT 3) (Lec 1 Hrs / Lab 4 Hrs)****Transfer Credit: CSU, UC**

Students learn to develop 3D representations of engineering components and assemblies using SolidWorks feature-based parametric solid modeling software. Instruction is given in the types of solid object manipulations that are common to all parametric solid modeling software used in industry to construct components that can be further combined to make assemblies. The preparation of engineering drawings from the 3D representation using automation tools is also covered.

ENG GEN 241 STRENGTH OF MATERIALS**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU, UC, C-ID (ENGR 240)****Prerequisite: ENG GEN 131**

The student will learn the application of mechanics to determining the effect of forces and torques on materials. The student will be able to apply this knowledge to the design of load bearing components. The course will cover the following topics: stress, strain, axial loading, torsion, flexural stresses, transverse shear stress, horizontal shear stresses, stress transformations, Mohr's circle, pressure vessels, shear and bending moment diagrams, stresses in a beam, methods of superposition, and elastic strain energy.

ENGLISH (ENGLISH)**ENGLISH 028 INTERMEDIATE READING AND COMPOSITION****3 Units (Lec 3 Hrs)****Corequisite: ENGLISH 067**

Students receive instruction in techniques of writing at the college level. Students develop writing and reading skills, with emphasis on grammar, various essay writing, and analysis of fiction and nonfiction materials.

ENGLISH 067 WRITING LABORATORY**0.5 Units (Lab 1 Hrs)****Corequisite: ENGLISH 028**

Students practice the writing skills presented in ENGLISH 028.

ENGLISH 068 READING LABORATORY**0.5 Units (Lab 1 Hrs)**

Students can improve their reading comprehension and develop critical reading skills through individual help from instructor, one-to-one tutoring conferences, group workshops, and computer instruction by practicing previewing, paraphrasing, drawing inferences, and summarizing a chosen text.

ENGLISH 078 WRITING MEMOIR**3 Units (Lec 3 Hrs)****Advisory: E.S.L. 006A**

Students read full-length memoirs by published writers in order to outline and compose their own memoirs. Students learn to recognize and explore memories and experiences, decide what to include and exclude in their writing process and discover new meanings from their pasts, which give perspectives to the present. All material is submitted in a supportive workshop atmosphere designed to help writers formulate, design, and construct their own memoir.

ENGLISH 094 INTENSIVE GRAMMAR REVIEW**3 Units (Lec 3 Hrs)**

Students learn the parts of speech, grammar, mechanics, sentence style, punctuation, and word usage in English. The students engage in an intensive review of grammar and sentence structure to better prepare them for ENGLISH 028 or 101.

ENGLISH 101 COLLEGE READING AND COMPOSITION I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area A2), UC (IGETC Area 1A),****C-ID (ENGL 100 or ENGL 110)****Prerequisite: E.S.L. 008 or by Appropriate Placement (see p.22)****Advisory: ENGLISH 108**

Students develop their skills for writing college-level essays that incorporate various documentation styles. Students learn the importance of various fiction and nonfiction readings.

ENGLISH 102 COLLEGE READING AND COMPOSITION II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area A3), UC (IGETC Area 1B,3B),****C-ID (ENGL 120 or ENGL LIT 100)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)****Advisory: ENGLISH 108**

Students study representative works from major genres to develop close reading and analytical writing skills, and have appreciation and critical understanding of the cultural, historical, and aesthetic qualities of literature. Students study literature and literary criticism in order to develop critical thinking, reading, and writing skills beyond the level achieved in ENGLISH 101. This course emphasizes logical reasoning, analysis, and strategies of argumentation.

ENGLISH 103 COMPOSITION AND CRITICAL THINKING**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area A3), UC (IGETC Area 1B),****C-ID (ENGL 105 or 115)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)****Advisory: ENGLISH 108**

Students further develop their logical, argumentative, and analytical thinking and writing skills. The course will utilize various fiction and nonfictional readings.

ENGLISH 104 COLLEGE WRITING SKILLS AND SUPPORT**3 Units (Lec 3 Hrs)****Corequisite: ENGLISH 101**

ENGLISH 104 provides instruction in the basic conventions of college essay writing to supplement a concurrent ENGLISH

101 course. In ENGLISH 104, students receive additional support for topics covered in the concurrent ENGLISH 101 course. Pass/No Pass only.

ENGLISH 108 WRITING WORKSHOP

0.5 Units (Lab 1 Hrs)
Transfer Credit: CSU

Students enrolled in ENGLISH 101, 102, and 103 receive additional instruction in writing their college-level essays. The lab course will further teach research techniques and proper citation, as well as strategies in organization and support to revise their papers.

ENGLISH 127 CREATIVE WRITING

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: ENGLISH 102

Students receive intensive training in writing poetry, prose fiction, and/or playwriting. Students compose works that are discussed as part of instruction, supplemented by examples of published writers and theoretical essays on the creative process.

ENGLISH 203 WORLD LITERATURE I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), C-ID (ENGL 140 or ENGL LIT 140)
Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)

Students recognize and compare key literary works and ideas of the Western world, the Middle East, Africa, and Asia from antiquity to the seventeenth century, and analyze poetic forms and literary themes significant to the cultures in reasoned analysis.

ENGLISH 204 WORLD LITERATURE II

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), C-ID (ENGL 145 or ENGL LIT 185)
Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)

The student will recognize and compare readings from different cultures and synthesize literary forms and themes significant to these cultures in reasoned and cogent analyses. This course is a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from the mid or late seventeenth century to the present.

ENGLISH 205 ENGLISH LITERATURE I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), C-ID (ENGL 160 or ENGL LIT 160)
Prerequisite: ENGLISH 102 or by Appropriate Placement (see p.22)

Students read, discuss and analyze major works of English literature from the beginnings to the late eighteenth century, to develop an understanding and appreciation of the poetry, fiction, and drama of these literary periods and to express that appreciation in reasoned analyses.

ENGLISH 206 ENGLISH LITERATURE II

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), C-ID (ENGL 165)
Prerequisite: ENGLISH 102 or by Appropriate Placement (see p.22)

Students read, discuss, and analyze major works of English literature from the nineteenth century to the present, to develop

an understanding and appreciation of the poetry, fiction, and drama of these literary periods and to express that appreciation in reasoned analyses.

ENGLISH 207 AMERICAN LITERATURE I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), -ID (ENGL 130)
Prerequisite: ENGLISH 102 or by Appropriate Placement (see p.22)

Students read American writers and analyze themes from colonial times to 1865. Besides reading the literary works of major writers, students become acquainted with writers who suggest the diversity of subject and opinion in American literature.

ENGLISH 208 AMERICAN LITERATURE II

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), -ID (ENGL 135)
Prerequisite: ENGLISH 102 or by Appropriate Placement (see p.22)

Students read, discuss, and analyze major American literature from the Civil War Period to the present, in order to understand, appreciate, and investigate multicultural influences within national identity.

ENGLISH 211 FICTION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)
Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)

Students read, discuss, and analyze selected short stories and novels written in, or translated into, English from a diversity of cultures and countries to increase students' understanding and appreciation of the art and craft of fiction writing.

ENGLISH 212 POETRY

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)
Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)

Students study works by selected poets and their historical background for appreciation of the poetic form, including early verses to 20th and 21st century poetry. Students gain a historical sense and literary appreciation shaped by readings which include stylistically and culturally diverse works.

ENGLISH 214 CONTEMPORARY LITERATURE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)
Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)

Students read key literary works and ideas of recent mainstream and ethnically diverse literature to develop understanding and appreciation of contemporary culture, through reasoned analyses of its literature.

ENGLISH 215 SHAKESPEARE I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)
Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)

This course provides an introductory study and overview of Shakespeare's earlier texts, such as sonnets, comedies, histories, and tragedies. The class explores Shakespeare's life and times, the Renaissance, and its cultural and historical impact on the dramatist, while offering in-depth analyses of his work.

ENGLISH 216 SHAKESPEARE II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)**

The student reads Shakespeare to develop an understanding of and appreciation for his sonnets and representative comedies, histories, and tragedies. Works selected in this class focus on Shakespeare's later career.

ENGLISH 218 CHILDREN'S LITERATURE**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), C-ID (ENGL 180 or 145)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)**

Students are introduced to the underlying literary, psychological, and cultural structures of literature written for children. The course focuses on the literary and historical analysis of children's literature with an emphasis on the nature and development of the genre and why this literature takes so many different forms. Some consideration of the various concepts of the child will be included.

ENGLISH 219 THE LITERATURE OF AMERICAN ETHNIC GROUPS**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)**

Students use critical analysis of the various ethnic American writers who straddle two or more cultures, analyzing in terms of assimilation, acculturation, double and mestiza consciousness and wholeness. Students read and analyze the diversity of conflicting perspectives in novel, autobiography, essay, and poetry in the context of how these writers have defined or challenged concepts of identity, society, and power in past and contemporary American cultures. Students read literary works by African American, American Indian, Asian American, Arab American, Chicano/Latino, and Euro-American writers.

ENGLISH 239 WOMEN IN LITERATURE**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)**

Students become acquainted with the work of women writers, historical and contemporary, who have made important contributions to literature. Writers to be read include Wollstonecraft, Woolf, Chopin, Austen, Cisneros, Butler, Hong-Kingston, and Cather, among others. Students are expected to write critical essays and a research paper that examine the predominate themes in path-breaking literature by and (to a lesser extent) about women, as well as the various archetypes, images, roles, and statuses of women. Special attention is devoted to traditional literary analysis and interpretation of primary texts through the lens of the various schools of literary criticism.

ENGLISH 240 LITERATURE AND THE MOTION PICTURE I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)**

The student will examine the comparative arts of literature and the motion picture, analyzing the inherent conflicts of translation between two different mediums. Includes readings of literary works, both classic and modern, screenings of film versions based upon these literary sources, discussion, and writing of critical papers. The course explores the variations in mediums and the act of translation across mediums.

ENGLISH 252 THE ENGLISH BIBLE AS LITERATURE**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)**

Students study the principle achievements of the Hebrew and Greek Testaments, analyzing the numerous literary and cultural influences within and of the Bible.

ENGLISH 255 LATIN AMERICAN LITERATURE**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)**

Students study a selection of significant literary works by Latin American authors. Readings will include selected poems, plays, and fiction by writers such as Pablo Neruda, Galeano, and Jorge Luis Borges, and will explore the themes of magical realism, social engagement, 'la raza cosmica,' and Utopian yearnings.

ENGLISH 270 SCIENCE FICTION - FANTASY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Prerequisite: ENGLISH 101 or by Appropriate Placement (see p.22)**

Students read and study works of science fiction, with an emphasis on the use of mythology, science fiction by scientists and non-scientists, philosophically oriented science fiction, and science fiction as fantasy and escape literature.

ENGLISH 285 DIRECTED STUDY - ENGLISH**Units (Lec 2 Hrs)****Transfer Credit: CSU**

Students pursue directed study in literary analysis, a particular genre or period, or independent research on a contract basis under the direction of a supervising instructor.

ENGLISH 385 DIRECTED STUDY - ENGLISH**Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students pursue directed study on a contract basis under the direction of a supervising instructor.

ENVIRONMENTAL SCIENCE (ENV SCI)**ENV SCI 001 INTRODUCTION TO ENVIRONMENTAL SCIENCE****3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area B1), UC (IGETC Area 5A)**

This course introduces students to fundamentals of Earth's physical environment, focusing on the scientific principles that relate to human-environment interactions. This interaction is explored with regards to the Earth's atmosphere, biosphere, hydrosphere, and lithosphere. Issues such as human populations, energy generation and use, pollution, resources, and global climate change are discussed.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 003A COLLEGE ESL III: WRITING AND GRAMMAR

6 Units (Lec 6 Hrs)

Prerequisite: Placement in ESL 003A

Advisory: ESL 003B, ESL 003C

Low-intermediate ESL students learn how to write paragraphs based on readings, class discussions, and familiar topics. This course introduces students to the writing process (pre-writing, drafting, and revising). Students improve their grammar through instruction on word order, sentence structure, parts of speech, and verb tenses. This course is for students who speak, read, and understand some English and now want to develop their writing skills.

ESL 003B COLLEGE ESL III: READING AND VOCABULARY

3 Units (Lec 3 Hrs)

Prerequisite: Placement in ESL 003B

Advisory: ESL 003A or ESL 003C

Low-intermediate ESL students read and discuss textbook passages, short novels, adapted readers, and/or short stories to improve their comprehension, read more quickly, develop reading skills and strategies, and learn new words and expressions. The course improves the students' ability to read and understand written English in daily life and at school.

ESL 003C COLLEGE ESL III: LISTENING AND SPEAKING

3 Units (Lec 3 Hrs)

Prerequisite: Placement in ESL 003C

Advisory: ESL 003A, ESL 003B

Low-intermediate ESL students develop their listening and speaking skills in order to communicate effectively in school, work, and social settings. Students listen for main ideas and details in recorded conversations, watch videos, practice their pronunciation, participate in small group discussions, and give short presentations.

ESL 004C COLLEGE ESL IV: LISTENING AND SPEAKING

3 Units (Lec 3 Hrs)

Prerequisite: ESL 003C or Placement in ESL 004C

Advisory: E.S.L. 004A or E.S.L. 004B

Intermediate ESL students improve their ability to understand spoken English and to express themselves with confidence. Students practice a variety of listening skills including predicting content, taking notes, and summarizing main ideas and details. Small group discussions, pronunciation practice, and individual and team presentations help students develop their speaking skills.

ESL 005C COLLEGE ESL V: LISTENING AND SPEAKING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Prerequisite: ESL 004C or Placement in ESL 005C

Advisory: E.S.L. 005A or E.S.L. 005B

High-intermediate ESL students acquire listening and speaking skills required for academic success. Students listen to short academic lectures, take notes, critically respond to the content, and analyze the speaker's message. Students express their

own views in class discussions and informal debates, improve their pronunciation, and prepare and give speeches on contemporary topics.

ESL 006C COLLEGE ESL VI: LISTENING AND SPEAKING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Prerequisite: ESL 005C or Placement in ESL 006C

Advisory: E.S.L. 006A or E.S.L. 006B

Low-advanced ESL students prepare for the rigors of college-level coursework in English and other academic subjects by refining their listening comprehension and oral fluency. Students listen to extended academic lectures, polish their note-taking skills, continue to improve their pronunciation, participate in depth discussions and debates, and give formal informational and persuasive speeches.

FAMILY AND CONSUMER STUDIES (FAM &CS)

FAM &CS 021 NUTRITION

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area E), UC, C-ID (NUTR 110)

Students learn the scientific concepts of nutrition in a lecture interactive format. Students will evaluate how lifestyle, diet, nutrient excess and deficiencies, phytochemicals food safety, and food technology affect diseases. Human nutrition from conception through maturity, and family history of nutritional disease risk factors is a key focus of the course. Students explore a personal dietary assessment, using a computerized dietary program. Students use personal data to evaluate excesses and deficiencies and construct nutrition practices that establish and maintain a healthy lifestyle which includes healthier nutritional eating practices.

FAM &CS 024 FOOD PREPARATION

3 Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU, C-ID (NUTR 120)

Students are introduced to the scientific fundamentals of food preparation in both lecture and laboratory format. Scientific principles of food preparation are emphasized using current technology. The role of food in cultures, nutrition, and the economy are integrated into meal planning and preparation.

FAM &CS 031 MARRIAGE AND FAMILY LIFE

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D,E), UC (IGETC Area 4)

Interpersonal growth and rewarding relationships are explored over the course of the family life cycle. This course examines the impact of social, psychological, and economic forces that affect the family.

FAM &CS 050 SANITATION AND SAFETY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students learn basic principles of sanitation and safety including the types of microorganisms that cause foodborne illness, foodborne infections, toxin-mediated infection, and intoxication. Class includes discussion of environmental conditions including food hazards, contamination, cross-contamination, time and temperature, and personal food handler practices that cause sanitation/safety risks. U.S. Food Code regulations,

California state and Los Angeles County Environmental Health Department regulations and a HACCP system of food safety will help define the role of food, people, and facility in managing a sanitary food facility operation. Emphasis on the importance of proper employee food safety training practices as related to the providing of safe food are core competencies of this class.

FAM & CS 051 FOOD PRODUCTION MANAGEMENT

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Corequisite: FAM & CS 151

Students are introduced to menu analysis for food requisitioning, food production planning, and implementation. Basic principles of quantity cooking are emphasized.

FAM & CS 052 FOODSERVICE MANAGEMENT

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Prerequisite: FAM & CS 051, FAM & CS 055

Current concepts in food service management are presented in a lecture/discussion format. The course focuses on the systems approach to food service management, including the menu, food purchasing, personal management, facility management, fiscal management, marketing, and information systems.

FAM & CS 055 DIETETIC EDUCATION

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students are introduced to careers in dietetics and food service. The application of communication skills to training, counseling, and education is studied.

FAM & CS 056 NUTRITION DELIVERY SYSTEMS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Corequisite: FAM & CS 156

The student learns an introduction to nutrition delivery systems and institutional menu diet modifications. The student will study medical nutrition therapy and how to modify diets for particular diseases. State and federal regulatory guidelines for food service are studied.

FAM & CS 151 FOOD PRODUCTION MANAGEMENT LABORATORY

2 Units (Lab 5 Hrs)

Transfer Credit: CSU

Corequisite: FAM & CS 051

Students receive supervised practice in food requisitioning, food production planning, and quantity food production in a clinical laboratory.

FAM & CS 156 NUTRITION DELIVERY SYSTEMS LABORATORY

Units (Lab 5 Hrs)

Transfer Credit: CSU

Corequisite: FAM & CS 056

The student completes supervised practice at a long-term care facility in nutritional services. Nutrition delivery systems are evaluated according to state and federal regulatory guidelines. Student shadows a Dietetic Service Supervisor and increasingly contributes as a supervised member of the health care team.

FINANCE (FINANCE)

FINANCE 002 INVESTMENTS

Units (Lec 3 Hrs)

Transfer Credit: CSU

Students receive the essentials of the principles of investment, the various types of investments, the operations of investment markets, and sources of information.

FINANCE 008 PERSONAL FINANCE AND INVESTMENTS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students receive and apply the principles of accounting, banking, finance, office methods, management, and production to one's personal affairs. Topics include family budgeting, consumer credit, home ownership, life and property insurance, investments and savings plans, social security, and retirement plans.

FINANCE 015 PRINCIPLES OF BANKING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

This course is designed to provide an understanding of the basic functions of banking and a working knowledge of the operation of the bank.

FRENCH (FRENCH)

FRENCH 001 ELEMENTARY FRENCH I

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC

Elementary course for student without prior exposure to French. Develops speaking, writing, listening, and reading skills in French at the ACTFL Proficiency Novice-Mid Level, and introduces French culture.

FRENCH 002 ELEMENTARY FRENCH II

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A)

Prerequisite: FRENCH 001

Continues the development of elementary speaking, writing, listening, and reading skills in French at the ACTFL Proficiency Novice-High Level, and furthers understanding of French culture.

FRENCH 003 INTERMEDIATE FRENCH I

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)

Prerequisite: FRENCH 002

Development of intermediate French in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-Mid Level, and practices interpreting French culture.

FRENCH 004 INTERMEDIATE FRENCH II

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)

Prerequisite: FRENCH 003

Continues the development of intermediate French in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-High Level and utilize knowledge of French culture.

FRENCH 010 FRENCH CIVILIZATION**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)**

Course taught in English. Focuses on the history, culture, traditions, and arts of France and its people. The contribution of France to world civilization is examined.

FRENCH 021 FUNDAMENTALS OF FRENCH I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC**

Fundamental course for students without prior exposure to French. Develops speaking, writing, listening, and reading skills in French at the ACTFL Proficiency Novice-Low Level, and raises awareness about French culture. FRENCH 021 and FRENCH 022 together are equivalent to FRENCH 001. Both FRENCH 021 and FRENCH 022 must be taken for UC:CSU credit.

GEOGRAPHY (GEOG)

GEOG 001 PHYSICAL GEOGRAPHY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area B1), UC (IGETC Area 5A),****C-ID (GEOG 110)****Advisory: ENGLISH 028, ENGLISH 067**

Students learn about basic scientific principles of geography such as Earth-Sun relationships, weather, climate, water, plate tectonics, landforms, soil, and the biosphere. Emphasis is on the interrelationships among physical systems and processes and their resulting patterns and distributions. Tools of geographic inquiry are also briefly covered; they may include: maps, remote sensing, Geographic Information Systems (GIS), and Global Positioning Systems (GPS). Optional field trips are offered.

GEOG 002 CULTURAL ELEMENTS OF GEOGRAPHY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (GEOG 120)****Advisory: ENGLISH 028, ENGLISH 067**

Students learn about diverse human populations in the context of the globe, including the description, analysis, and explanation of demography, migration, folk and popular culture, language, religion, ethnicity, political geography, development, agriculture, industry, economic activities, urban areas, and resource utilization. Special emphasis is placed on contemporary issues such as the effects of globalization and the impact of human settlements on the natural environment. Students also learn basic geographic literacy and map reading.

GEOG 004 MAP READING AND INTERPRETATION**Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC**

This course provides an introduction to maps, cartography, and spatial analysis techniques. Students use paper maps and computerized mapping technologies such as Geographic Information Systems (GIS) to learn how geographers can use spatial information in cultural and environmental decision-making. Data sources including satellite images, aerial photographs, and the U.S. Census will be utilized. For students planning further study in cartography or geographic decision-making, the course will serve as a primer for a GIS course.

GEOG 014 GEOGRAPHY OF CALIFORNIA**Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D) (IGETC Area 4)**

This course surveys the physical and cultural landscapes of California with emphasis on human-environment interaction and the spatial patterns of natural, socio-political, economic and demographic forces that have shaped the state. This course examines historical and current trends in climate, human population, cultural diversity, migration, and settlement patterns. Distinctive high-tech industries, iconic urban areas, resource use, transportation routes, and trade are assessed with an emphasis on the profound interconnections between these subjects, on California's diversity, and on the rapid change that is transforming our people and its landscapes. As the most populous state, there will be focus on the ongoing role of its residents in constructing the identity of the 21st Century Californian.

GEOG 015 PHYSICAL GEOGRAPHY LABORATORY**2 Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area B3), UC (IGETC Area 5C),****C-ID (GEOG 111)****Prerequisite: GEOG 001****Corequisite: GEOG 001****Advisory: ENGLISH 028, ENGLISH 067**

This course is designed to provide supplemental exercises in topics covered in Physical Geography lecture (GEOG 001). Students learn to analyze and interpret maps, including weather maps and topographic maps, as well as perform hands-on exercises that explore Earth-Sun relationships, atmospheric energy transfer, pressure and moisture, climate and biogeography, plate tectonics and volcanoes, and landforms.

GEOG 020-1 GEOGRAPHIC FIELD STUDIES (MOUNTAINS)**1 Units (Lab 2 Hrs)****Transfer Credit: CSU**

This course introduces students to common field techniques utilized by physical geographers. Students learn in an immersive environment during off-campus field trips, where multiple senses are engaged. Physical processes, characteristics, and landscapes will be observed and analyzed. This course specifically focuses on upland/montane environments and will complement other courses in the GEOG 020 suite that focus on coastal, urban, and desert environments.

GEOLOGY (GEOLOGY)

GEOLOGY 001 PHYSICAL GEOLOGY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area B1), UC (IGETC Area 5A),****C-ID (GEOL 100)****Advisory: ENGLISH 028, ENGLISH 067**

Students learn the scientific method and significant historical developments in geological sciences; formation of Earth materials, including minerals, igneous rocks, sedimentary rocks, and metamorphic rocks; geological time, including relative dating, absolute dating, and fossil correlation; Earth's internal processes, including plate tectonics, earthquakes, volcanism and magmatism, mountain building, geological structures, and metamorphism; Earth's external processes, including

weathering, erosion, sedimentation, mass wasting, ground-water, surface water, and climate systems; and renewable and nonrenewable resources, including water and fossil fuels.

GEOLOGY 002 EARTH HISTORY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1), UC (IGETC Area 5A)

Advisory: ENGLISH 028

Students receive an introduction to the geological history of Earth and its inhabitants, with emphasis on the evolution of life and landforms of North America. Topics include how Earth processes produce and alter landforms, climate, and energy and water resources on which humans depend; significant tectonic events, such as mountain building episodes; and the evolutionary history of life on Earth, including plants, fish, dinosaurs, mammals, and humans. Multimedia presentations are used throughout the course. Field trips will be taken.

GEOLOGY 006 PHYSICAL GEOLOGY LABORATORY

1 Units (Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B3), UC (IGETC Area 5C),

C-ID (GEOL 100 L)

Prerequisite or Corequisite: GEOLOGY 001

Advisory: ENGLISH 028, ENGLISH 067

Students learn the scientific method; identification of minerals and rocks; topographic and geologic map skills, including changing map scales using dimensional analysis and interpretation of geological structures in map view and cross-section; stratigraphic interpretation of sea level change; coastal sedimentary processes; determination of the location and magnitude of earthquakes; geological time and important geological events; and energy and mineral resources. Field trip will be taken.

GEOLOGY 007 EARTH HISTORY LABORATORY

1 Units (Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B3) (IGETC Area 5C), C-ID (GEOL 110 L)

Prerequisite: GEOLOGY 002

Corequisite: GEOLOGY 002

Students learn fundamental principles of historical geology and the geological history of Earth and its inhabitants, with emphasis on North America. Laboratory topics include: relative and radiometric dating; analysis of sedimentary rocks, depositional environments, and facies relationships; correlation and stratigraphy; fossils, fossilization, and evolution; organization and interpretation of geological information, including geological maps and cross-sections; Precambrian (Archean and Proterozoic Eons) geology; Phanerozoic (Paleozoic, Mesozoic, and Cenozoic Eras) geology; and Hominin fossils. Field trips may be taken.

HEALTH (HEALTH)

HEALTH 002 HEALTH AND FITNESS

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU (CSUGE Area E), UC

The students will determine the components of a healthy physical and psychological lifestyle, with an emphasis on disease prevention, including violence/abuse, nutrition, sexuality, reproduction, drugs, alcohol, tobacco, aging, stress management, and weight control. During the physical fitness segment,

students participate in aerobic, flexibility, and strengthening activities, focusing on individual improvement. Students assess their fitness status to build their own fitness plan.

HEALTH 008 WOMEN'S PERSONAL HEALTH

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area E), UC

The student will investigate both physiological and psychological health issues that are unique to women, including, nutrition, hygiene, sexuality, reproduction, drug use, violence and abuse, and diseases common to women.

HEALTH 011 PRINCIPLES OF HEALTHFUL LIVING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area E), UC, C-ID (PHS 100)

This course 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. This course does not focus on the vocational aspects of the public health field and instead looks at the connection between personal behavior and its correlation with disease prevention. 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 012 SAFETY EDUCATION AND FIRST AID

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area E), UC, C-ID (KIN 101)

Students receive the theory and a detailed demonstration of the first aid care of the injured. This course covers how to assess a victim's condition and incorporate proper treatment. Standard first aid, CPR, and AED certification(s) will be granted upon successful completion of requirements.

HEALTH 021 HUMAN SEXUALITY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU, C-ID (PSY 130)

This course provides a comprehensive introduction to the cultural, behavioral, biological and psychosocial aspects of human sexuality. This course prepares students for working in the public health field and an emphasis is put on the societal implications and sexual health behavior. Topics presented include acquired immune deficiency syndrome and other sexually transmitted diseases, as well as sexual variance and dysfunction, and sexuality throughout the human life cycle.

HEALTH 046 BASIC LIFE SUPPORT CPR/AED FOR THE HEALTHCARE PROVIDER

1 Units (Lec 1 Hrs)

Students learn the American Heart Association Basic Life Support (BLS) CPR/AED for the Healthcare Provider, including care of the adult, child, and infant.

HEALTH 051 DRUGS AND ALCOHOL IN SOCIETY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students will learn the epidemiology and toxicology of substance abuse and its relevance to personal and public health. Students will learn concept of substance abuse and dependence, the definition of licit and illicit drugs, and the pharmacologic, neurologic, 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. Epidemiologic 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.

HEALTH 101 INTRODUCTION TO PUBLIC HEALTH

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area E), UC

Students will learn the discipline of Public Health. Students will learn 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 of the core public health disciplines is 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; and health care policy and management.

HISTORY (HISTORY)

HISTORY 003 HISTORY OF ENGLAND AND GREAT BRITAIN I

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C2,D6), UC (IGETC Area 3B,4F)

Advisory: ENGLISH 101

The student learns the history of British culture, emphasizing social, political, and economic issues from earliest times to 1500.

HISTORY 004 HISTORY OF ENGLAND AND GREAT BRITAIN II

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C2,D6), UC (IGETC Area 3B,4F)

Advisory: ENGLISH 101

The student learns the history of British culture, emphasizing social, political, and economic issues from 1500 to the present.

HISTORY 005 HISTORY OF THE AMERICAS I

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

This course covers the History of the Americas (North, Central and South America) from the arrival of the first humans to the liberation of the Americas from the European powers (England, France, Spain and Portugal) between 1783-1824. As the course covers a long time span and a huge geographic area, the emphasis is on Native American civilizations, European colonization and American democracy. The course analyzes the American Declaration of Independence and the United States Constitution, as well as the new Latin American nations and the United States to 1830.

HISTORY 006 HISTORY OF THE AMERICAS II

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

This course is a comparative survey of the political, social, economic, and cultural development of the Americas from the era of independence to the present, with special emphasis on the relationship between the United States and the Latin American nations. It covers issues including class, race, gender, social change, and revolution, in addition to examining the evolving history and impact of the U.S. Constitution.

HISTORY 007 THE WORLD'S GREAT RELIGIONS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C2,D), UC (IGETC Area 3B,4)

In this course students are introduced to the great religions of the world, exploring their evolution and impact on society throughout history. The course begins with animisms and ancient religions, before examining the more familiar religions that emerged during and soon after the Axial Age such as Hinduism, Buddhism, Jainism, Confucianism, Taoism, and the Abrahamic Religions (Judaism, Christianity, Islam).

HISTORY 011 POLITICAL AND SOCIAL HISTORY OF THE UNITED STATES TO 1877

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D6, US1), UC (IGETC Area 4F),

C-ID (HIST 130)

A survey of U.S. history from the European colonization of North America and of the United States through Reconstruction.

HISTORY 012 POLITICAL AND SOCIAL HISTORY OF THE UNITED STATES FROM 1865

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D6, US1), UC (IGETC Area 4F),

C-ID (HIST 140)

Students survey study of the social and political history of the United States from the Reconstruction era to the present, focusing not only on political and social developments in the history of the United States but also on economic and cultural developments, and analyzing changes in both the United States' domestic policies and its ongoing and changing role in international affairs.

HISTORY 040 AMERICAN HISTORY IN FILM

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students will survey the development of American films and explore the way in which American history has been interpreted and presented for mass viewing by movie-going audiences.

HISTORY 059 COMPARATIVE HISTORY OF GENOCIDE & WAR CRIMES

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4)

The student learns the comparative history of genocide and war crimes in the 20th century and the legal instruments and organizations that have attempted to criminalize acts that fit within the definitions of genocide under international law. Students will also learn the comparative history of cultural conflict (identity), race and racism, and nationalism.

HISTORY 073 RACE & RACISM IN UNITED STATES HISTORY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4C,4)****Prerequisite: ENGLISH 021**

Students learn how race has developed as a legal and social category in the United States, as well as learning about the interactions among diverse ethnic groups in the U.S. Students investigate how racism has affected intercultural collaboration and confrontation. Students compare and contrast diverse racial and ethnic experiences in the United States.

HISTORY 081 A HISTORY OF WORKING PEOPLE IN THE UNITED STATES I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D, US1), UC (IGETC Area 4)****Advisory: ENGLISH 101 , ENGLISH 067**

The student learns the history of working people in the United States from the colonial period through Reconstruction. Colonial life, the Revolutionary War, the early republic, the market revolution, the rise of urban America, westward expansion, the Civil War, and Reconstruction are examined from the perspective of indentured servants, slaves, farmers, skilled and unskilled laborers, and male and female workers.

HISTORY 082 A HISTORY OF WORKING PEOPLE IN THE UNITED STATES II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D, US1), UC (IGETC Area 4)****Advisory: ENGLISH 101 , ENGLISH 067**

The student learns the history of working people in the United States from Reconstruction to the present. Reconstruction, the Gilded Age and Progressive Era, immigration, imperialism, the Twenties, the Great Depression and New Deal, the World Wars, the Cold War and the Fifties, the Sixties, the conservative shift, and globalization are examined from the perspective of people from diverse social groups.

HISTORY 086 INTRODUCTION TO WORLD CIVILIZATION I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2,D), UC (IGETC Area 3B,4), C-ID (HIST 150)****Prerequisite: ENGLISH 028**

Traces the development and interrelationships of world civilizations, their cultural traditions, and their contributions from the earliest times to 1500.

HISTORY 087 INTRODUCTION TO WORLD CIVILIZATION II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2,D), UC (IGETC Area 3B,4), C-ID (HIST 160)****Prerequisite: ENGLISH 028**

Traces the development and interrelationships of the major world civilizations and their cultural traditions and contributions from the era of European expansion in the sixteenth century to the present. Note: HIST 086 is not a prerequisite for this course. Students may take HIST 087 without taking HIST 086.

HISTORY 385 DIRECTED STUDY - HISTORY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students study History on a contract basis under the direction of a supervising instructor.

HUMANITIES (HUMAN)**HUMAN 006 GREAT PEOPLE, GREAT AGES****3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Advisory: ENGLISH 028, ENGLISH 067**

Students receive an introduction to ideas and methods in the Humanities. The course explores the way in which individuals and groups create meaning in their lives and in the world around them.

HUMAN 008 GREAT WOMEN IN THE HUMANITIES**3 Units (RPT 1) (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Advisory: ENGLISH 028, ENGLISH 067**

Students are introduced to the lives and times of great women from ancient times to the modern era.

HUMAN 030 THE BEGINNINGS OF WESTERN CIVILIZATION**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Advisory: ENGLISH 028, ENGLISH 067**

Students receive an introduction to ancient cultures and world religions. The course explores the foundational texts, art, and ideas of ancient India, China, the Middle East, Egypt, and Greece.

HUMAN 031 PEOPLE IN CONTEMPORARY SOCIETY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Advisory: ENGLISH 028, ENGLISH 067**

Students are introduced to the contemporary cultural encounters between the various world cultures including Europe, the Americas, Asia, and Africa. Rather than a historical survey, specific historical case studies are examined.

HUMAN 061 PEOPLE AND THEIR WORLD: THE CREATIVE PROCESS**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Advisory: ENGLISH 028, ENGLISH 067**

Students explore contemporary arts, literature, and popular culture. Students employ a range of analytic frameworks, including how the creative process is generated through myth and dreams as well as how race, class, gender, and sexuality are portrayed in popular culture.

INTERNATIONAL BUSINESS (INTBUS)**INTBUS 001 INTERNATIONAL TRADE****3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students gain an understanding of international business, the dynamics between developed and developing countries, recent trends, how and why the world's countries differ, and implications to managers of international companies. The principles of international trade, including the central tenets of globalization, the new world order in the global economy, and the institutions that govern global trade will be covered. Topics include: globalization, foreign direct investment, political economies, regional economic integration, foreign exchange

market, international monetary system, global capital markets, strategies of international organizations, and exporting, importing and counter-trade.

INTBUS 003 EXPORT PROCEDURES I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

The student identifies, defines, and explains that which is required by the United States regulatory agencies to export from the United States. Emphasis will be placed on how to determine if a commodity is acceptable for export and how to prepare the proper documentation required by the country of destination.

INTBUS 004 IMPORT PROCEDURES I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

The student learns how to identify, define, and explain the United States regulatory agencies requirements to import to the United States. Emphasis will be placed on how to determine what duties commodities might be subject to and how to prepare and present to the Bureau of Customs the shipment and its document.

INTBUS 005 PAYMENT INSTRUMENTS AND PROCEDURES I

3 Units (Lec 3 Hrs)

The student learns how to arrange and receive payment for merchandise shipped from one country to another. Topics covered include how to prepare and fill out documents. Also included is information regarding credit and political risk insurance.

INTBUS 006 INTERNATIONAL MARKETING I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Student is focused on how to get foreign customers for American made products, how to identify prospective customers, how to make contact, and how to sell the product. Variables include: culture, trade customs, politics, climate, wealth, business and government structures, and international law.

JAPANESE (JAPAN)

JAPAN 001 ELEMENTARY JAPANESE I

5 Units (Lec 5 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC

Elementary course for student without prior exposure to Japanese. Develops speaking, writing, listening, and reading skills in Japanese at the ACTFL Proficiency Novice-Mid Level, and introduces Japanese culture.

JAPAN 002 ELEMENTARY JAPANESE II

5 Units (Lec 5 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A)
Prerequisite: JAPAN 001 or JAPAN 022

Continues the development of elementary speaking, writing, listening, and reading skills in Japanese at the ACTFL Proficiency Novice-High Level, and furthers understanding of Japanese culture

JAPAN 003 INTERMEDIATE JAPANESE I

5 Units (Lec 5 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)
Prerequisite: JAPAN 002

Development of intermediate Japanese in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-Mid Level, and practice interpreting Japanese culture.

JAPAN 004 INTERMEDIATE JAPANESE II

5 Units (Lec 5 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)
Prerequisite: JAPAN 003

Continues the development of intermediate Japanese in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-High Level and utilizes knowledge of Japanese culture.

JAPAN 007 CONVERSATIONAL JAPANESE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU
Prerequisite: JAPAN 002

Students will develop practical speaking and listening skills in Japanese at the ACTFL Proficiency Intermediate-Low Level, and utilize culture in spoken communication.

JAPAN 009 JAPANESE CIVILIZATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)

Open to all students. Course taught in English. Focuses on the history, culture, traditions, and arts of Japan and its people. The contribution of Japan to world civilization is examined.

JAPAN 021 FUNDAMENTALS OF JAPANESE I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2)

Fundamental course for students without prior exposure to Japanese. Develops speaking, writing, listening, and reading skills in Japanese at the ACTFL Proficiency Novice-Low Level, and raises awareness about Japanese culture. JAPAN 021 and JAPAN 022 together are equivalent to JAPAN 001. Both JAPAN 021 and JAPAN 022 must be taken for UC:CSU credit.

JAPAN 022 FUNDAMENTALS OF JAPANESE II

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC
Prerequisite: JAPAN 021

Continues the development of fundamental speaking, writing, listening, and reading skills in Japanese at the ACTFL Proficiency Novice-Mid Level, and introduces Japanese culture. JAPAN 021 and JAPAN 022 together are equivalent to JAPAN 001. Both JAPAN 021 and JAPAN 022 must be taken for UC:CSU credit.

JOURNALISM (JOURNAL)

JOURNAL 101 COLLECTING AND WRITING NEWS

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, C-ID (JOUR 110)

Students learn the principles of collecting and writing the news, and the basics of Associated Press Style. Students survey the history and foundation of the press in America. Curriculum connects theory with meaningful activity and practice. Course covers news conferences, speeches and other events, including an introduction to broadcast writing, multimedia, and social

media. The course includes an examination of freedom of the press and a critical analysis of its responsibilities. Students examine legal issues, press ethics, and ethical dilemmas.

JOURNAL 105 MASS COMMUNICATIONS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (JOUR 100)

Students examine America's mass communication systems and learn how they affect human behavior in relation to social, political, and economic institutions. Students learn the structure and function of media in the digital age. Students learn and discuss media literacy and mass communication theories, as well as public relations practice, the history of advertising and the evolution of the Internet. Survey of factors that influence the creation and distribution of media messages, and the impact of those messages on society.

JOURNAL 108 ARTICLE WRITING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

This is a course for journalism majors, freelance writers, and anyone who wants to learn to write articles for media. Emphasis is placed on writing articles features, editorials, or reviews suitable for publication. Students also receive practice in editing and the use of illustrations.

JOURNAL 185 DIRECTED STUDY - JOURNALISM

1 Units (Lec 1 Hrs)

Transfer Credit: CSU

The student learns to work independently and produce content in Directed Study under the direction of a supervising instructor.

JOURNAL 217-1 PUBLICATION LABORATORY I

2 Units (Lab 6 Hrs)

Transfer Credit: CSU

In this beginning level course, students learn introductory newspaper production techniques through the publication of the campus newspaper, including newspaper design, layout, graphic techniques, and materials. Student reporters, editors, photographers, and other visual journalists receive practical instruction in basic production and publication. Deadlines and real-world working conditions are stressed.

JOURNAL 217-2 PUBLICATION LABORATORY II

2 Units (Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: JOURNAL 217-1

In this intermediate level course, students learn to identify relevant editorial topics and produce content for the opinion/editorial section, through the publication of the campus newspaper, the Collegian. Reporters, photographers, and cartoonists learn to collaborate at the intermediate level in order to produce effective staff editorials and editorial cartoons or other images. Students also produce content for the news section, and learn to create style sheets and dummy pages for the graphic design of the op/ed section. Students adhere to strict deadlines.

JOURNAL 217-3 PUBLICATION LABORATORY III

2 Units (Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: JOURNAL 217-2

In this advanced course, students learn newspaper production techniques, and adapt print work to the Internet. Advanced students produce stories for the print edition of the campus newspaper and also contribute content to the newspaper's

digital site, Collegian Wired. Students focus on introductory vertical reporting skills that may include photography, videography, broadcast editing, broadcast reporting, and print reporting. Students learn to generate ideas for photo essays, graphics centerpieces, and bar charts. Student reporters focus on series and investigative reporting techniques.

JOURNAL 217-4 PUBLICATION LABORATORY IV

Units (Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: JOURNAL 217-3

Students learn professional-level newspaper production techniques through the publication of the campus newspaper, the Collegian, with an emphasis on mobile journalism and social media. At the professional level, students write for the Collegian and practice the skills necessary to work across social media, broadcast, and print platforms. At the professional level, all students publish blogs and create online portfolios.

JOURNAL 218-1 PRACTICAL EDITING I

Units (Lec 1 Hrs / Lab 6 Hrs)

Transfer Credit: CSU, C-ID (JOUR 130)

Prerequisite: JOURNAL 101

In this beginning course, students learn editing fundamentals through the publication of the campus newspaper, the Collegian. This includes basic copy editing, writing headlines, and cropping photographs. Editors evaluate and discuss issues of the newspaper in regularly scheduled critique sessions following publication.

JOURNAL 218-2 PRACTICAL EDITING II

3 Units (Lec 1 Hrs / Lab 6 Hrs)

Transfer Credit: CSU, C-ID (JOUR 131)

Prerequisite: JOURNAL 218-1

Students learn intermediate newspaper editing skills through the publication of the campus newspaper, the Collegian. Editors check facts, spelling, grammar, and Associated Press style for all copy; improve stories and oversee major revision; collaborate with news design staff, photographers, and reporters; and create style sheets and dummy pages for upcoming issues.

JOURNAL 218-3 PRACTICAL EDITING III

3 Units (Lec 1 Hrs / Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: JOURNAL 218-2

In this course, students practice advanced newspaper editing skills through the publication of the campus newspaper, the Collegian. Students edit reporter work for grammar, punctuation, clarity, and Associated Press Style. Student editors craft headlines and cutlines, and also practice editing skills across other platforms, including broadcast and the web. Editors learn front page design software, and focus on copy flow and newsroom organization. Published work is critiqued in regularly scheduled class meetings.

JOURNAL 218-4 PRACTICAL EDITING IV

3 Units (Lec 1 Hrs / Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: JOURNAL 218-3

Students learn professional-level newspaper writing and copy editing through the publication of the campus newspaper, the Collegian. Students develop news management skills essential to the demands of evolving media. Editors master Associated Press Style and learn newsroom techniques to improve

broadcast, online, multimedia, and social media content. Editors review and critique all content in regularly scheduled class meetings.

JOURNAL 219-1 TECHNIQUES FOR STAFF EDITORS I

1 Units (Lab 3 Hrs)
Transfer Credit: CSU

In this beginning course, students learn practices in editorial writing and analysis, while working as editors on the campus newspaper, the Collegian. Students also learn newsroom leadership skills and how to formulate editorial policy. Student learn to be accountable for what they publish. They also learn to respond to feedback from readers, including letters to the editor.

JOURNAL 219-2 TECHNIQUES FOR STAFF EDITORS II

1 Units (Lab 3 Hrs)
Transfer Credit: CSU
Prerequisite: JOURNAL 219-1

In this course, student editors receive intermediate instruction in editorial writing and analysis of editorial problems, students survey research methods, students learn newsroom leadership skills and how to formulate editorial policy, and students set advertising and editorial policy.

JOURNAL 219-3 TECHNIQUES FOR STAFF EDITORS III

1 Units (Lab 3 Hrs)
Transfer Credit: CSU
Prerequisite: JOURNAL 219-2

In this course, students learn advanced techniques for managing and producing the student newspaper, the Collegian. Students focus on newsroom operations and staff hierarchy. Editors learn planning techniques and establish reporting guidelines. At this level, editors analyze coverage during regular meetings and implement changes to improve print and online content. Students master real newsroom techniques and practices, and learn to produce under intense deadline pressure.

JOURNAL 220 MAGAZINE PRODUCTION

3 Units (Lec 1 Hrs / Lab 4 Hrs)
Transfer Credit: CSU
Prerequisite: JOURNAL 101

Students learn basic theory and practice of the planning and production of a print magazine. This beginning magazine production course includes pre-press production, story and image budgeting, as well as how to write, edit, and publish a magazine. Unity of design and artistic principles are stressed to produce compelling pages. Students also focus on the selection and use of typographic fonts in layout and design. Students learn to create production schedules, and they learn to work closely with the printer to stay on budget to produce the most compelling edition possible of the Collegian Times.

JOURNAL 220-1 MAGAZINE PRODUCTION 1

3 Units (Lec 1 Hrs / Lab 4 Hrs)
Transfer Credit: CSU
Prerequisite: JOURNAL 101

Students will learn basic theory and practice of the planning and production of a print magazine. This beginning magazine production course includes pre-press production, story and image budgeting, as well as how to write, edit, and publish a magazine. Unity of design and artistic principles are stressed to produce compelling pages. Students also focus on the selection and use of typographic fonts in layout and design.

Students learn to create production schedules, and they learn to work closely with the printer to stay on budget to produce the most compelling edition possible of the Collegian Times.

JOURNAL 220-2 MAGAZINE PRODUCTION 2

3 Units (Lec 1 Hrs / Lab 4 Hrs)
Transfer Credit: CSU
Prerequisite: JOURNAL 220-1

Students will develop and practice intermediate skills in magazine writing and production for print. Students will learn to collaborate in teams with copy editors, visual journalists such as photographers, graphic designers, videographers, cartoonists, and illustrators, to create the campus publication, the Collegian Times. Students will also develop multi-platform skills that enable them to reversion print articles for use in online TV and in podcasts. Intermediate students practice peer review and critiques of reporters' rough drafts. Students also learn to create budgets and production schedules and to work closely with the printer to stay on budget to produce the most compelling edition possible of the Collegian Times.

JOURNAL 258 BLOGGING AND SOCIAL MEDIA

3 Units (Lec 1 Hrs / Lab 6 Hrs)
Transfer Credit: CSU

This course provides practical instruction and practice in developing, producing, writing, and marketing blogs as part of the student online campus publications. Online editions are evaluated and critiqued in regularly scheduled student staff meetings.

JOURNAL 285 DIRECTED STUDY - JOURNALISM

2 Units (Lec 2 Hrs)
Transfer Credit: CSU

The student learns to work independently and produce content in Directed Study under the direction of a supervising instructor.

KINESIOLOGY (KIN)

KIN 045 ADAPTED FITNESS

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students with verified disabilities perform exercises as part of an individualized training program to improve cardiovascular fitness, muscular fitness, and flexibility.

KIN 180 MARATHON TRAINING COURSE FOR RUN/WALK

1.5 Units (Lab 4 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students develop an understanding of cardiovascular endurance and specificity of training for marathons using a variety of tempo run/walks. Students utilize and understand aerobic and anaerobic energy systems and when each is used. Race analysis and race psychology are also explained along with proper hydration and nutrition.

KIN 185 DIRECTED STUDY - KINESIOLOGY**1 Units (Lec 1 Hrs)****Transfer Credit: CSU**

Students pursue directed studies in Kinesiology on a contract basis, under the direction of a supervising instructor.

KIN 201-1 SWIMMING SKILLS I**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn intermediate swimming skills. Skills for each stroke include kicking, arm stroke, proper breathing techniques, body position, and rhythm of stroke. The student also learns water safety skills.

KIN 202 LAP SWIMMING SKILLS**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Advanced swimmers improve their speed, strength, and endurance. Instructor directs organized, challenging workouts with all four competitive strokes. Students should be able to swim 50 yards, without stopping, in deep water using the freestyle stroke and rotary breathing. At the first pool session, students' swimming ability will be assessed to ensure minimum skills for participation.

KIN 205 WATER POLO SKILLS**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn ball handling, game strategy, shooting, defense, offense, counter attack, and game management. Instruction includes progressive skills attainment.

KIN 206 DIVING SKILLS**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn the theory and practice of diving drills necessary to use the one-meter diving board. Demonstration and instruction on the five categories of basic dives, a front approach, the back take-off, jumps, line-ups, dry-land conditioning exercises and drills, and work toward building a five-dive list is covered.

KIN 215-1 JUDO SKILLS I**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn 15 throwing techniques, five pinning techniques, and two constriction techniques, as well as the history and etiquette of judo.

KIN 215-2 JUDO SKILLS II**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 215-1**

Students apply the techniques of judo to a moving opponent. Students practice five throwing techniques, five pinning techniques, five constriction techniques, and two arm locks.

KIN 215-3 JUDO SKILLS III**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 215-2**

Students learn the competitive rules of the International Judo Federation. Additionally, students learn five new throwing techniques, five new pinning techniques, two new arm locks, and five new constriction techniques, all of which are applied while attacking and defending simultaneously while randomly moving about the competition area.

KIN 217 SELF-DEFENSE SKILLS**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

The student develops the basic skills of self-defense, beginning with lateral movement, strength and cardiovascular fitness, agility, and awareness of self in one's environment. The basic skills include striking, kicking, blocking, throwing, grappling, and other techniques. Additionally, legal and moral issues of self-defense are discussed.

KIN 229 BODY CONDITIONING SKILLS**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students participate in a variety of vigorous exercises for increasing cardiovascular fitness, muscular strength, and flexibility. Various modes of aerobic exercises are emphasized in support of the cross-training concept. Resistance training using fixed weight of moderate to high intensity is used to develop muscular strength in all major muscle groups. Flexibility training is also emphasized to enhance skeletal range of motion. Information on exercise methods and principles, the physiology of the human body, fitness evaluation methodologies, and nutrition education.

KIN 230 CARDIOKICKBOXING SKILLS**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn a non-contact aerobic activity designed to teach basic kicking and punching techniques to improve overall fitness and increase bio mechanics training including: cardio-respiratory endurance, muscular strength and endurance, flexibility, and body composition. Weights, steps, and calisthenic exercises may also be utilized.

KIN 237 BOOT CAMP I**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn and apply low intensity style boot camp class activities along with nutrition and diet assessments. Students learn training exercises like basic aerobic and anaerobic conditioning, muscular strength, resistance and endurance training, and also individual and team concepts. In addition, students are challenged to understand and apply basic fitness principles, basic anatomy and physiology, the prevention of training injuries, target heart rate and the intensity of exercise as well as nutrition for fitness. Students train individually, with a partner or in a team setting.

KIN 246 BODY SCULPTING SKILLS**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn techniques for body sculpting to achieve cardiovascular fitness, flexibility, muscle toning and endurance. Students will utilize exercise bands, core strength training on mats, weights, stability balls, medicine balls, kettle bells, and other activities are used to increase cardiac output and overall lean muscle mass.

**KIN 249-1 STRESS MANAGEMENT TECHNIQUES
THROUGH MOVEMENT I****1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn techniques for managing stress through movement, dance therapy, dance meditation, authentic movement studies, breathing exercises, yoga, physical therapy, and varied relaxation exercises.

**KIN 249-2 STRESS MANAGEMENT TECHNIQUES
THROUGH MOVEMENT II****1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 249-1, DANCETQ 241**

Students learn additional techniques for managing stress through movement, dance therapy, dance meditation, authentic movement studies, breathing exercises, yoga, physical therapy, and varied relaxation exercises. Students develop listening skills and presentation skills through practice.

KIN 250-1 WEIGHT TRAINING SKILLS I**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students develop muscular strength and endurance using weight machines and free weights. They employ proper training techniques necessary to maintain personal fitness throughout the lifespan.

KIN 250-2 WEIGHT TRAINING SKILLS II**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 250-1**

Students develop resistance training experience and become involved in a higher level of exercise. They will be exposed to a wide variety of machine as well as free weight exercises and will then design a program based on individual needs.

KIN 250-3 WEIGHT TRAINING SKILLS III**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 250-2**

Students develop an advanced level in weight training and techniques that promote muscular strength and endurance. Excelled use of free weights and machines along with safety rules are mastered. Students enrolling in Advanced Weight Training are required to take a skills test.

KIN 251-1 YOGA SKILLS - I**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn the physical practice of yoga, connecting body, mind, and spirit. The students are introduced to its origins, asanas (positions), and terminology.

KIN 251-2 YOGA SKILLS - II**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 251-1**

Students progress in the physical practice of yoga asana, moving beyond beginning level positions and sequences, developing balance in body alignment, flexibility, and strength. The students learn asanas (positions), terminology, and gain greater understanding of yoga philosophy and its application to daily life.

KIN 251-3 YOGA SKILLS - III**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 251-2**

Students learn the physical and psychological aspects of yoga through the practice of connecting body, mind, and spirit. The students are introduced to its origins, asanas (positions), and terminology.

KIN 265 CROSS COUNTRY CONDITIONING SKILLS**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn basic biomechanics pertaining to jogging, running, and race walking. Students will improve their cardiovascular system through various conditioning programs. Students learn a variety concepts pertaining to pacing, nutrition, cross training, and weight management that help enable them to increase their quantity and quality of life.

KIN 266-1 BADMINTON SKILLS - I**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn the fundamental skills and knowledge necessary to play badminton such as the serve, clear, drop and smash shots, rules, and basic strategies for the games of singles and doubles.

KIN 266-2 BADMINTON SKILLS - II**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 266-1**

Students learn the skills and knowledge necessary to play badminton at the intermediate skill level such as the serve, clear, drop and smash shots, feints, rules, and intermediate level strategies for the games of singles and doubles.

KIN 271-1 TENNIS SKILLS - I**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn the fundamental skills and knowledge necessary to play tennis such as serve, forehand and backhand, ground strokes and volleys, singles and doubles rules, and basic court positioning and strategy.

KIN 271-2 TENNIS SKILLS - II**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 271-1**

Students learn intermediate level skills and knowledge to play tennis. Essential aspects of the game are presented through lecture, demonstration, group and individual drills, stroke analysis, theory, and application of singles and doubles play. Emphasis is also placed on physical fitness. This skill level articulates with United States Tennis Association's level 2.5 to 3.0.

KIN 272 TRACK AND FIELD SKILLS**Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn instruction and practice in the events relevant to track and field. Topics include techniques, strategies, fitness conditioning, and rules pertaining to all aspects and events of track and field. Some of the topics include disk throwing, hurdles, sprinting, cross training and injury prevention. Emphasis will be put on proper biomechanics and injury prevention.

KIN 285 DIRECTED STUDY -KINESIOLOGY

Units (Lec 2 Hrs)
Transfer Credit: CSU

Students learn to participate professionally in a variety of fitness environments. Areas of study include youth fitness, personal training, group fitness, senior classes and health, and diabetes prevention, among others. Students learn to work with clients, manage client care, and analyze results. They also pursue directed studies in the area of Kinesiology on a contract basis under the direction of a supervising instructor.

KIN 287-1 BASKETBALL SKILLS I

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students practice, at a beginning level, the fundamental skills of basketball (dribbling, shooting, and passing) and basic offensive and defensive team strategies through instruction and drills.

KIN 287-2 BASKETBALL SKILLS II

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: KIN 287-1

Students practice, at an intermediate level, the fundamental skills of basketball (dribbling, shooting, and passing) and improve their ability to perform these skills under game conditions. They learn how to be a contributing team member on offense and defense by setting screens, playing various zone defenses, and running a half-court press.

KIN 289-1 SOCCER SKILLS I

1 Units (Lab 3 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students learn basic soccer skills of passing, dribbling, shooting, and goalkeeping. The course will also introduce individual and team offense and defense, as well as the rules, proper etiquette, terminology, and the components of fitness. Students will learn proper soccer techniques with practice skills and feedback.

KIN 289-2 SOCCER SKILLS II

1 Units (Lab 3 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: KIN 289-1

Students learn fundamental skills, team strategies, rules of the games, refereeing, and active participation of game play. Students also learn how activities can lead to an active, healthy lifestyle by developing a personal fitness plan.

KIN 290 SOFTBALL SKILLS

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students learn the fundamental skills and rules of softball. Students learn proper techniques and strategies for playing softball. Upon completion, students should be able to participate in recreational softball.

KIN 291-1 VOLLEYBALL SKILLS I

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

The student will learn and develop a basic understanding of volleyball. The student will learn the basic skills of serving, passing, setting, attacking, and blocking. The student will also learn the tactical skills of basic volleyball offensive and defensive play and well as the rules and scoring.

KIN 291-2 VOLLEYBALL SKILLS II

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC
Prerequisite: KIN 291-1 or Placement exam

Students learn volleyball skills and techniques. Skills learned are passing, serving, hitting, and blocking. The students also learn strategy used for games and the rules of the sport.

KIN 300 SWIMMING NON-/SWIMMER

1 Units (Lab 2 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students learn primary swimming skills, the beginning locomotion skills of various swimming strokes and improve water safety awareness.

KIN 300-1 SWIMMING NON-SWIMMER I

1 Units (Lab 3 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students learn primary swimming skills, the beginning locomotion skills of various swimming strokes, and improve water safety awareness.

KIN 303 AQUA AEROBICS

1 Units (RPT 3) (Lab 3 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students learn basic principles of water safety, nutrition, and water aerobics exercises for conditioning. This class emphasizes cardiovascular endurance and strength training by the use of water resistance.

KIN 307 SWIM AND RUN

1 Units (Lab 3 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students develop an understanding of cardiovascular endurance and fitness through running and swimming instruction. Students will learn proper swimming and running techniques with practice drills and feedback. The emphasis will be to provide safe and effective training progressions to improve health and skill acquisition. This class promotes the appreciation of outdoor fitness and all abilities are welcomed.

KIN 326 AEROBIC SUPER CIRCUIT LAB

1 Units (Lab 3 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

The student rotates through a series of weight training and cardiovascular exercises/machines at short, timed intervals for a challenging form of conditioning that develops muscular strength, muscular endurance and cardiovascular endurance concurrently. Students learn the importance of nutrition for peak performance and increased overall wellness along with issues pertaining to exercise physiology.

KIN 327 LIFELONG FITNESS LAB

1 Units (Lab 3 Hrs)
Transfer Credit: CSU (CSUGE Area E), UC

Students develop flexibility, muscular strength, muscular endurance, cardiovascular endurance, and body composition. Students learn how to achieve a healthy lifestyle, proper fitness balance, nutrition. Cardiovascular disease prevention and education is a main component of this course.

KIN 328 BICYCLE SPINNING ACTIVITY**1 Units (Lab 2 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students develop and improve both cardiovascular endurance and leg strength through cycling, interval training and hill climbing. Cycling safety, bike fit, and heart rate training will be emphasized throughout the course. Incorporates a choreographed workout on a specially designed stationary bicycle, using music and fundamental cycling techniques.

KIN 328-1 BICYCLE SPINNING I**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

This course increases and helps maintain both cardiovascular endurance and leg strength through stationary bike workouts. Intensity is high and challenging. Resting and target heart rates are used to monitor improvements in the students' cardiovascular system.

KIN 328-2 BICYCLE SPINNING II**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC****Prerequisite: KIN 328-1**

This course covers the intermediate principles designed to build on basic techniques from Bicycle Spinning I. Intervals, rolling hills, sprints, climbs, runs, and jumps challenges students to improve their cardiovascular system, help build leg strength, burn calories, and increase endurance.

KIN 331 CROSS TRAINING**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students learn a variety of cross training activities to achieve their personal fitness goals. Includes lectures on nutrition, exercise physiology concepts, and participation in a workout designed to improve cardiovascular conditioning and body composition, and increase muscle strength/endurance and flexibility.

KIN 333 STEP AEROBICS AND WEIGHT TRAINING**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students use a combination of strength training machines, free weights, step aerobics, and low impact aerobics to increase overall fitness and knowledge of personal health. These activities are utilized to gain fitness, emphasizing flexibility, muscular strength, and cardiovascular endurance. Students learn safety training, biomechanics, nutrition, weight management, and other nutrition and fitness concepts and skills.

KIN 334 FITNESS WALKING**1 Units (Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area E), UC**

Students focus on achieving cardiovascular fitness and a healthy lifestyle through walking programs and gate training. Course topics include shoe selection, posture, gait, walking styles, flexibility, clothing, creating a walking program, nutrition, BMI, cardiovascular disease prevention, and assessing fitness level.

KINESIOLOGY ATHLETICS (KIN ATH)**KIN ATH 511 INTERCOLLEGIATE ATHLETICS-SOCCER****3 Units (RPT 3) (Lab 10 Hrs)****Transfer Credit: CSU**

Students/athletes learn soccer skills and techniques required for intercollegiate soccer. The course provides an opportunity to develop fine motor skills and game strategies needed to compete at the collegiate level.

KIN ATH 552 INTERCOLLEGIATE SPORTS-CONDITIONING & SKILLS TRAINING**1 Units (RPT 3) (Lab 3 Hrs)****Transfer Credit: CSU**

The student athlete will prepare for the physical and mental rigors of the athletic season. The following areas are emphasized: the analysis/development of athletic skills, offensive and defensive systems, and the five components of physical fitness. This class is open to students who are current team members.

KIN ATH 558 INTERCOLLEGIATE SOCCER-FITNESS & SKILLS TRAINING**1 Units (RPT 3) (Lab 3 Hrs)****Transfer Credit: CSU**

Student-athletes will be provided an advanced strength and conditioning program specific to soccer with emphasis on skills, fundamentals, injury prevention, and safety. The student also learns strategic play necessary for competition at advanced levels.

KINESIOLOGY MAJOR (KIN MAJ)**KIN MAJ 100 INTRODUCTION TO KINESIOLOGY****3 Units (RPT 1) (Lec 3 Hrs)****Transfer Credit: CSU, UC, C-ID (KIN 100)**

Students learn about the study of human movement through an interdisciplinary approach that includes discussing the importance of the sub-disciplines in kinesiology and the variety of career opportunities in the areas of teaching, allied health, and fitness professions.

KIN MAJ 117 PERSONAL TRAINER INSTRUCTOR**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

Students will develop the knowledge and understanding to prepare for the ACE Personal Trainer Certification Exam and become effective personal trainers. This is a comprehensive course for designing individualized programs based on each client's unique health, fitness, and goals. The information covered by this course will help the student learn how to facilitate rapport, adherence, self-efficacy, and behavior change in clients, as well as design programs that help clients to improve posture, movement, flexibility, balance, core function, cardiorespiratory fitness, and muscular endurance and strength.

KIN MAJ 134 ADVANCED LIFESAVING**Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

This class provides training in lifesaving skills and students are certified in the latest American Red Cross Lifeguarding program. Lifeguard program certification includes cardiopulmonary resuscitation, first aid, automated external defibrillator (AED), oxygen administration, and lifeguard management procedures.

**KIN MAJ 217 MOVEMENT SCREENING AND ANALYSIS
FOR FITNESS TRAINING PROFESSIONALS****Units (Lec 2 Hrs / Lab 2 Hrs)**

Students learn the knowledge, skills, and abilities to become Functional Movement Screen Certified. Students will learn and identify common musculoskeletal dysfunctions and pathologies. Students will explore the impact of movement dysfunction on the muscular, skeletal, and myofascial system and design and implement corrective exercise strategies to improve overall functional movement.

KOREAN (KOREAN)**KOREAN 001 ELEMENTARY KOREAN I****5 Units (Lec 5 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC**

Elementary course for students without prior exposure to Korean. Develops speaking, writing, listening, and reading skills in Korean at the ACTFL Proficiency Novice-Mid Level, and introduces Korean culture.

KOREAN 002 ELEMENTARY KOREAN II**5 Units (Lec 5 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A)****Prerequisite: KOREAN 001**

Continues the development of elementary speaking, writing, listening, and reading skills in Korean at the ACTFL Proficiency Novice-High Level, and furthers understanding of Korean culture.

KOREAN 003 INTERMEDIATE KOREAN I**5 Units (Lec 5 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)****Prerequisite: KOREAN 002**

Development of intermediate Korean in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-Mid Level, and practice interpreting Korean culture.

KOREAN 004 INTERMEDIATE KOREAN II**5 Units (Lec 5 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)****Prerequisite: KOREAN 003**

Continues the development of intermediate Korean in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-High Level and utilizes knowledge of Korean culture.

KOREAN 007 CONVERSATIONAL KOREAN**3 Units (Lec 3 Hrs)****Transfer Credit: CSU****Prerequisite: KOREAN 002**

Students will develop practical speaking and listening skills in Korean at the ACTFL Proficiency Intermediate-Low Level, and utilize culture in spoken communication.

KOREAN 010 KOREAN CIVILIZATION**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)**

Open to all students. Course taught in English. Focuses on the history, culture, traditions, and arts of Korea and its people. The contribution of Korea to world civilization is examined.

KOREAN 021 FUNDAMENTALS OF KOREAN I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC**

Fundamental course for students without prior exposure to Korean. Develops speaking, writing, listening, and reading skills in Korean at the ACTFL Proficiency Novice-Low Level, and raises awareness about Korean culture. KOREAN 021 and KOREAN 022 together are equivalent to KOREAN 001. Both KOREAN 021 and KOREAN 022 must be taken for UC:CSU credit.

KOREAN 022 FUNDAMENTALS OF KOREAN II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC****Prerequisite: KOREAN 021**

Continues the development of fundamental speaking, writing, listening, and reading skills in Korean at the ACTFL Proficiency Novice-Mid Level, and introduces Korean culture. KOREAN 021 and KOREAN 022 together are equivalent to KOREAN 001. Both KOREAN 021 and KOREAN 022 must be taken for UC:CSU credit.

LAW (LAW)**LAW 001 BUSINESS LAW I****3 Units (Lec 3 Hrs)****Transfer Credit: CSU, UC**

Students learn the fundamental legal principles pertaining to business transactions. Students will be introduced to the legal process. Topics include sources of law and ethics, contracts, torts, agency, criminal law, business organizations, and judicial and administrative processes.

LAW 002 BUSINESS LAW II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU, UC**

Students learn about the fundamental principles of law as they apply in the business world. Topics include, but are not limited to, bankruptcy law; employment and labor law; employment discrimination; corporations; administrative law; environmental law; real property and landlord-tenant relationships; and wills, trusts, and elder law. This course is necessary for a well-rounded knowledge of business law.

LAW 003 CIVIL RIGHTS AND THE LAW**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4)**

Students learn about the broad range of privileges and rights guaranteed by the United States Constitution and subsequent amendments and laws that guarantee fundamental freedoms to all individuals. These freedoms include the rights of free expression and action; the right to enter into contracts, own property, and initiate lawsuits; the right of due process and equal protections of the laws; opportunities in education and

work; the freedom to live, travel, and use public facilities wherever one chooses; and the right to participate in the democratic political process.

**LAW 004 DIRECTED FIELD WORK IN
LEGAL ASSISTING**

3 Units (Lec 1 Hrs / Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: LAW 010

Students gain practical experience by working in a law office or other legal environment. Students are supervised by an attorney, paralegal supervisor, or other legal personnel. These unpaid internship positions are available in a variety of legal fields and legal settings. Through weekly seminars, students also gain and share information on preparing for permanent employment. Students must complete 108 hours in their internship assignments.

LAW 007 STREET LAW

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC

Advisory: ENGLISH 101

Students develop a practical understanding of the U.S. legal system and students will engage in active community participation. Students learn about areas of the law that affect the daily lives of all Americans and U.S. residents. Particularly relevant are the areas of consumer, housing, family, and employment law, along with marriage, and parental rights. Additionally, students learn fundamental criminal law and constitutional law principles. This knowledge provides a platform for guided discussion of important public policy issues concerning crime, discrimination, health care, and immigration.

LAW 010 INTRODUCTION TO LEGAL ASSISTANT I

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Corequisite: ENGLISH 101

The students learn about careers in the paralegal profession; the inner workings of the law office; ethics and professional responsibility; sources of American law; the court system and alternative dispute resolution; and conducting interviews and investigations. This is an introductory course in understanding the role of the paralegal in the legal field.

LAW 011 INTRODUCTION TO LEGAL ASSISTANT II

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Prerequisite: LAW 010, ENGLISH 101

Students learn the fundamentals of California civil litigation. Students become familiar with the California Code of Civil Procedure through the study of topics including, but not limited to, parties and jurisdictions; pleadings; complaints, answers, and cross-claims; introduction to motions; motions attacking the pleadings; summary judgments; evidence; introduction to discovery; written discovery; depositions; and trial preparation. Students learn how to draft legal documents such as complaints, answers, and motions.

LAW 012 TORT LAW AND CLAIMS INVESTIGATION

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Prerequisite: LAW 010, ENGLISH 101

Students learn the academic and practical principles of tort law needed for a successful career as a paralegal. Special emphasis will be placed on the three major categories of tort law: intentional torts; negligence; and strict liability. Other topics

covered include, but are not limited to, malpractice; misrepresentation; product liability; defamation; vicarious liability; and joint liability.

**LAW 013 WILLS, TRUSTS, AND
PROBATE ADMINISTRATION**

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students learn the fundamental principles of the law of wills and trusts, including simple will and trust forms and formation. Students learn the organization and jurisdiction of the California Probate Court, with an overview of the administration of estates in probate.

LAW 014 LAW OFFICE MANAGEMENT

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students learn comprehensive, up-to-date information on the use of technology by paralegals in all types of legal organizations. This course describes basic computer concepts as well as more complex skills and software programs, with coverage and assignments for Word, Excel, Adobe Acrobat, AbacusLaw, CaseMap, HotDocs, Summation iBlaze, Tabs3, TimeMap, Trial-Director, and more. This course covers important topics such as electronic discovery, Internet legal/factual research, legal timekeeping and billing, litigation support software, and case management and docket control software. A variety of other topics are covered including mobile computing, document management, security, ethics, the electronic courthouse and many other trends in legal computing.

LAW 017 LEGAL WRITING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Prerequisite: LAW 010, ENGLISH 101

Students study advanced legal drafting and writing, including special research projects.

LAW 018 MARRIAGE AND FAMILY LAW

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students learn basic California family law and the various documents used in a dissolution of marriage proceeding.

LAW 019 PROPERTY AND CREDITOR RIGHTS

3 Units (Lec 3 Hrs)

An introduction to California real property law. Students learn the following subject matter: forms of ownership; estates in real property; property title in California; agency law; the rights and duties of landowners; disputes between neighbors in California; involuntary liens in California; foreclosure law in California; California real estate sales contracts; tenant-landlord law; fair housing; transfers of real property; common interest developments in California; restrictions on land use; environmental law; litigating a real property case in California; negotiation; and personal property.

LAW 033 LAW AND THE MEDIA

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students learn the federal, state, and local laws that most directly affect mass communication in the United States, focusing on a basic understanding of the American legal system, its institutions, and some of its terminology; a broad understanding of First Amendment principles as they relate to mass communication; and a working knowledge of the laws that directly

restrict or enhance information gathering and message dissemination in the mass media, and an understanding of the rationales behind those laws.

LAW 035 IMMIGRATION LAW FOR PARALEGALS

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn the fundamental concepts of immigration law including grounds of exclusion, defenses to deportation, petitions and visa applications. Research and writing will be emphasized in the areas of amnesty, naturalization, citizenship, international law, criminal aspects of immigration, and various types of immigration applications.

LAW 037 BANKRUPTCY AND CREDITOR'S RIGHTS

3 Units (Lec 3 Hrs)

Students learn the basics of bankruptcy law and procedure. The course focuses predominantly on Chapter 7 and Chapter 13 Bankruptcy, including preparing the necessary forms for these types of bankruptcy. Other topics include, but are not limited to, the evolution of bankruptcy law, researching bankruptcy law, the roles of various individuals in the bankruptcy process, and information gathering and counseling.

LAW 038 CRIMINAL LAW & PROCEDURE

3 Units (Lec 3 Hrs)

Students learn substantive criminal law and the procedural rights of criminal defendants. The two essential elements of a crime—mens rea and actus reus—will be covered in detail. Other topics that will be covered include, but are not limited to, crimes against the person, crimes against property and habitation, crimes against the public, parties and inchoate offenses, and factual and statutory defenses.

LAW 051 LEGAL RESEARCH FOR PARALEGALS

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Prerequisite: LAW 010, ENGLISH 101

Students learn how to perform library and computer-assisted legal research. Topics include finding the law by using legal encyclopedias; treatises; legal periodicals; A.L.R. annotations; restatements; case reporters, digests, and their alternatives; case citators; constitutions and statutes; regulations; agency decisions; and looseleaf services. Students also receive hands-on training in Westlaw and LexisNexis.

LIBRARY SCIENCE (LIB SCI)

LIB SCI 101 COLLEGE RESEARCH SKILLS

1 Units (Lec 1 Hrs)
Transfer Credit: CSU, UC
Advisory: CAOT 001

This is a practical course in college level research using academic libraries and related information sources. Students develop strategies to find, organize, evaluate, and cite various print and online sources effectively and ethically. These skills help students become strong researchers and life-long learners.

LINGUISTICS (LING)

LING 001 INTRODUCTION TO LANGUAGE AND LINGUISTICS

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)

Students are introduced to the scientific study of language to gain an understanding of language structures, functions, linguistic universals, and the relationship between language and cognition.

LING 002 INTRODUCTION TO SOCIOLINGUISTICS

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4)
Advisory: LING 001

Students study the processes of linguistic variation and its relationship to geography and socio-cultural identity in both monolingual and multilingual settings. Students gain an understanding of language as a communicative, semiotic, and cognitive tool in society.

LING 003 INTRODUCTION TO PSYCHOLINGUISTICS

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4)
Advisory: LING 001

In this general introduction to psycholinguistics course, students focus on speech, perception, language processing, language production, and language acquisition. Students study the relationship between the theories proposed by linguistics and data as observed in everyday life. Students also review related areas such as processes of reading, language and the brain, and language and thought.

LEARNING FOUNDATION (LRNFDTN)

LRNFDTN 001 ADAPTED KEYBOARDING

1 Units (Lab 3 Hrs)

Designed for students with verified disabilities, this class provides individual instruction in keyboarding basics. Assistive technology may also be introduced for successful access to keyboard or screen. Basic reading and writing skills are not addressed in this course.

LRNFDTN 002 ADAPTIVE WORD PROCESSING OPERATIONS

1 Units (RPT 3) (Lab 3 Hrs)

Designed for students with verified disabilities, this class provides individual training in the use of word processing technologies. Students learn skills at an individual, non-competitive pace using assistive hardware and software when needed. Knowledge of keyboarding skills is helpful but not required. Basic reading and writing skills are not addressed in this course.

LRNFDTN 003 ADAPTIVE COMPUTER OPERATIONS

1 Units (RPT 3) (Lab 3 Hrs)

Designed for students with verified disabilities, this course provides individual assessment of assistive computer needs. Students will learn how to use the latest technologies (hardware and software) to make computer applications accessible. The type of technologies and the extent of the training will depend on the student's disability and needed applications. Knowledge of keyboarding skills is helpful but not required. Basic

reading and writing skills are not addressed in this course. This course may be scheduled at times to be arranged (TBA) for a minimum of 54 hours.

LRNFDTN 004 DIRECTED STUDY - ASSISTIVE TECHNOLOGY

1 Units (RPT 2) (Lec 1 Hrs)

Allow students to pursue Directed Study on a contract basis under the direction of a supervising instructor.

LRNFDTN 031 STUDY STRATEGIES FOR STUDENTS WITH LEARNING DIFFERENCES

3 Units (Lec 3 Hrs)

Students learn study skills utilizing multi-sensory techniques and strategies for coping with the demands of the college's academic curriculum. This study skills class is specifically designed for students with learning disabilities. Enrollment is intended for students with current functional limitations that impede or prevent the student from benefiting from their academic classes without this foundation and support. Grades are awarded on a Pass/No-Pass basis.

LRNFDTN 031A STUDY STRATEGIES FOR STUDENTS WITH LEARNING DIFFERENCES

1 Units (Lec 1 Hrs)

Students with disabilities learn how to employ multi-sensory techniques and strategies in order to meet the demands of the college's academic curriculum. Enrollment is intended for students with current functional limitations that impede or prevent the student from benefiting from their academic classes without this foundation and support.

LRNFDTN 031B STUDY STRATEGIES FOR STUDENTS WITH LEARNING DIFFERENCES

1 Units (Lec 1 Hrs)

Students with disabilities learn how to employ multi-sensory techniques and strategies in order to meet the demands of the college's academic curriculum. Enrollment is intended for students with current functional limitations that impede or prevent the student from benefiting from their academic classes without this foundation and support.

LRNFDTN 032 TRANSITION TO COLLEGE FOR STUDENTS WITH LEARNING DIFFERENCES

1 Units (Lec 1 Hrs)

Students with disabilities explore success factors for transitioning to college. Topics include an orientation to higher education as well as campus and off-campus resources. Students evaluate successful learning strategies for time management, memory processing and learning styles and how to employ assistive technology as well as multi-sensory techniques and strategies in order to meet the demands of the college's academic curriculum. Enrollment is intended for students with current functional limitations that impede or prevent them from benefiting from their academic classes without this foundation and support.

LRNFDTN 040 INTRODUCTION TO LEARNING DISABILITIES

1 Units (Lab 3 Hrs)

The student learns about learning disabilities and the laws, accommodations, and services available for academic improvement. Through assessment, the student discovers personal

learning strengths and weaknesses in order to develop a plan for academic success. Eligibility for support services will be determined. Grades are awarded on a Pass/No-Pass basis.

LRNFDTN 059 ORIENTATION TO DISABILITY SERVICES

1 Units (RPT 3) (Lec 1 Hrs)

Introduces students to Disabled Student Programs and Services (DSP&S) and federal disability regulations. Topics include student and faculty rights and responsibilities, reasonable accommodations, disability-related laws, and assistive technology/computer competency.

LRNFDTN 070 FUNDAMENTALS OF ARITHMETIC LABORATORY

1 Units (Lab 3 Hrs)

This course is designed for students with verified disabilities. Students will receive individualized, small group and computer assisted instruction. Students can supplement and enhance learning in mathematics through tutorial and self-help assistance, calculators, computers, programmed texts, assistive technology, tactile graphics, instruction in online learning systems, and other specialized learning aids.

LRNFDTN 071 FUNDAMENTALS OF ENGLISH LABORATORY

1 Units (RPT 2) (Lab 3 Hrs)

This course is designed for students with verified disabilities. Students will receive individualized, small group and computer assisted instruction. Students can supplement and enhance learning in reading and writing through tutorial and self-help assistance, assistive technology, writing, reading, grammar and idea mapping software, instruction in online learning systems, and other specialized learning aids.

MARKETING (MARKET)

MARKET 001 PRINCIPLES OF SELLING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Advisory: ENGLISH 028, ENGLISH 067

Students learn about careers in selling, ethics in selling, the psychology of selling, and benefit selling. They learn prospecting methods, the approaches to customers, using questions in selling, techniques for meeting objections to buying and techniques for closing the sale. This course is one of a series of classes which lead to the Marketing Certificate and the AA Degree with a major in marketing.

MARKET 011 FUNDAMENTALS OF ADVERTISING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Advisory: ENGLISH 028, ENGLISH 067

Students have an opportunity to explore the planning process, the strategies, and the techniques used by corporations and small businesses to stimulate sales.

MARKET 021 PRINCIPLES OF MARKETING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Advisory: ENGLISH 028, ENGLISH 067

Students learn the importance of making decisions with the customer in mind and the need to select target markets for products and services. The course covers decision making relative to product development and management, trademarks,

wholesaling, retailing, selling, sales promotion, advertising, and pricing. It is the first in a series of courses which lead to the Certificate in Marketing and the AA Degree with a major in marketing.

MARKET 031 RETAIL MERCHANDISING

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

The student will learn the principles and procedures in retailing, including a study of store location, store layout, store organization, buying, pricing, stock planning, and retail sales promotion.

MATHEMATICS (MATH)

MATH 010 MATH AS A SECOND LANGUAGE (MSL)

1 Units (Lec 1 Hrs)

Students study the basic mathematics sequence. The course introduces mathematical language and notation, along with fundamental concepts necessary for successful completion of the mathematics sequence. Topics include writing and speaking mathematical language, understanding how to determine what a problem is asking, and a multi-step program for solving problems. Also included are techniques that will enable students to have a positive outlook toward future mathematics classes.

MATH 100 MATHEMATICS WORKSHOP

1 Units (Lab 3 Hrs)

Corequisite: MATH 105 or MATH 112 or MATH 113 or MATH 114 or MATH 115 or MATH 125 or MATH 121 or MATH 124A or MATH 124B or MATH 215 or MATH 216 or MATH 227 or MATH 230 or MATH 236 or MATH 240 or MATH 245 or MATH 260

Students can supplement and enhance learning in mathematics through tutorial and self-help assistance, calculators, computers, programmed texts, and other learning aids.

MATH 105 ARITHMETIC

3 Units (Lec 1 Hrs / Lab 5 Hrs)

Students learn to perform arithmetic operations with whole numbers, fractions, and decimals. Students learn to solve word problems including whole numbers, fractions, decimals, and percents. Students learn ratios, rates, proportions, and everyday life application.

MATH 115 ELEMENTARY ALGEBRA

5 Units (Lec 5 Hrs)

Prerequisite: MATH 112

This course covers operations on real numbers and algebraic expressions, solving linear equations and inequalities in one variable, graphing linear equations and inequalities in two variables, solving systems of linear equations in two variables, exponents, operations on polynomials, factoring polynomials, operations on rational expressions, solving rational equations, simplifying radical expressions, solving radical equations, solving quadratic equations, and graphing quadratic equations.

MATH 125 INTERMEDIATE ALGEBRA

Units (Lec 5 Hrs)

Prerequisite: MATH 115 or by Appropriate Placement (see p.22)

Students learn techniques for solving compound linear inequalities as well as absolute value equations and inequalities, solving systems of linear equations in two and three variables, simplifying non-linear expressions, and solving non-linear equations such as polynomial, rational, radical, exponential,

and logarithmic. Students learn techniques for rewriting the equation in the standard form for parabola and circle, and graph. Students learn how to compute terms and sums of arithmetic and geometric series. Students will apply the binomial theorem to expand the binomial with given power. Applications are included in a wide variety of word problems.

MATH 134 ACCELERATED ELEMENTARY AND INTERMEDIATE ALGEBRA

Units (Lec 6 Hrs)

An accelerated course covering topics from Elementary and Intermediate Algebra. Topics include linear equations and inequalities, exponents, polynomials and factoring, rational expressions, rational equations and inequalities, radical expressions and equations, quadratics equations and inequalities, graphing linear and nonlinear equations and inequalities, system of linear and nonlinear equations and inequalities, functions, exponential and logarithmic functions, and conics.

MATH 157 JUST IN TIME SUPPORT FOR STATISTICS

1 Units (Lab 2 Hrs)

Corequisite: MATH 227 or MATH 230

Course covers core mathematics skills and concepts needed for elementary statistics. Intended for students who are concurrently enrolled in MATH 227 (Elementary Statistics) or MATH 230 (Mathematics for Liberal Arts Students) at LACC. Topics include concepts from arithmetic, pre-algebra, elementary and intermediate algebra that are needed to understand the basics of elementary statistics: numbers and the number lines, operations on numbers, sets, equations and inequalities, graphing points and lines in two dimensions, reading tables and graphs, and approximating areas.

MATH 158 ALGEBRA FOR STEM

1 Units (Lab 2 Hrs)

Advisory: MATH 245 or MATH 230 or MATH 236 or MATH 260

Topics include concepts from elementary and intermediate algebra: linear equations in one and two variables with applications, compound linear inequalities, absolute value equations and inequalities, functions and graphs, systems of equations, factoring, polynomial operations, rational, radical, quadratic, exponential and logarithmic equations, complex numbers, sum notation, and sequences.

MATH 167 PRE-STATISTICS

Units (Lec 5 Hrs)

Prerequisite: MATH 110 or MATH 112

Students learn key concepts of descriptive statistics such as observational and experimental design, graphical and tabular displays of data, measures of center and spread, probability, the normal distribution, and regression. This course is designed as a prerequisite solely for MATH 227 (Statistics). Students will not get math competency credit for taking this course towards an AA/AS degree. If students wish to proceed to another course other than MATH 227, they would need to take MATH 125.

MATH 190 ALGEBRA FOR STEM MAJORS

Units (Lec 4 Hrs / Lab 4 Hrs)

Prerequisite: MATH 110 or MATH 112

An accelerated course covering the topic of Elementary and Intermediate Algebra. Topics include the real number system, rules of exponents, linear equations and inequality in one variable, linear equations and inequality in two variables, systems of linear equations and inequalities, nonlinear systems

of equations, polynomial operations, factoring polynomials, rational expressions, rational equations and inequalities, radical expressions and rational exponents, radical equations and inequalities, quadratics equations and inequalities, functions and their graphs, exponential and logarithmic functions, the conic sections, and sequences and series.

MATH 202 MATHEMATICS WORKSHOP

1 Units (Lab 3 Hrs)

Transfer Credit: CSU

Corequisite: MATH 215 or MATH 216 or MATH 230 or MATH 236 or MATH 240 or MATH 245 or MATH 260 or MATH 261 or MATH 262 or MATH 263 or MATH 270 or MATH 275

Students supplement and enhance their learning in mathematics by providing tutorial and self-help assistance, calculators, computers, programmed text, and other learning aids for baccalaureate level mathematics courses.

MATH 215 PRINCIPLES OF MATHEMATICS I

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC, C-ID (MATH 120)

Prerequisite: MATH 125 or by Appropriate Placement (see p.22)

This course is the first of two in a sequence designed for prospective elementary school teachers. The student will learn topics including sets and relations, numbering systems, and elementary number theory. The main emphasis, however, will be understanding the structure of systems of whole numbers, integers, and rational numbers.

MATH 216 PRINCIPLES OF MATHEMATICS II

Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC

Prerequisite: MATH 215 or by Appropriate Placement (see p.22)

This course is the second of two in a sequence for prospective elementary teachers. Topics include decimal and real numbers, rational numbers, abstract mathematical systems, geometry and the metric system.

MATH 227 STATISTICS

Units (Lec 4 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A),

C-ID (MATH 110)

Prerequisite: MATH 125 or MATH 167 or by Appropriate Placement (see p.22)

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 227S STATISTICS WITH SUPPORT

4 Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

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 230 MATHEMATICS FOR LIBERAL ARTS STUDENTS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A), C-ID (MATH 150)

Prerequisite: MATH 125 or MATH 190 or by Appropriate Placement (see p.22)

Advisory: MATH 100 or MATH 202

Students receive instruction in topics which include linear equations and functions, applications of linear functions, systems of linear equations, matrices, system of linear inequalities, linear programming using the graphical method, mathematics of finance, logic, set theory, probability, basic counting, and statistics.

MATH 236 CALCULUS FOR BUSINESS AND SOCIAL SCIENCE

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A),

C-ID (MATH 140)

Prerequisite: MATH 125 or MATH 190 or by Appropriate Placement (see p.22)

This course consists of elementary differential and integral calculus of algebraic, exponential and logarithmic functions, as well as derivatives and the method of Lagrange multipliers. Applications to business and the social sciences are emphasized.

MATH 245 COLLEGE ALGEBRA

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A), C-ID (MATH 150)

Prerequisite: MATH 125 or by Appropriate Placement (see p.22)

Students receive instruction to solve linear, rational, polynomial, exponential, and logarithmic equations; graph linear, rational, polynomial, exponential, and logarithmic functions; solve linear and nonlinear systems of equations and inequalities; and sequences and series.

MATH 245L JUST IN TIME SUPPORT FOR COLLEGE ALGEBRA

1 Units (Lab 2 Hrs)

Transfer Credit: CSU

Corequisite: MATH 245 or MATH 236 or MATH 260

Intended for students who are concurrently enrolled in MATH 245 (College Algebra), MATH 236 (Calculus for Business and Social Science), or MATH 260 (Precalculus) at LACC. Topics include concepts from elementary and intermediate algebra: linear equations in one and two variables with applications, compound linear inequalities, absolute value equations and inequalities, functions and graphs, systems of equations, factoring, polynomial operations, rational, radical, quadratic, exponential and logarithmic equations, complex numbers, sum notation, and sequences.

MATH 258 GEOMETRY AND TRIGONOMETRY

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area B4)

Prerequisite: MATH 125 or MATH 190 or MATH 134 or by Appropriate Placement (see p.22)

Students learn the definitions, axioms, and theorems of geometry relating to angles, lines, circles, and polygons. Practice in critical thinking and developing logical proofs are emphasized. This course also includes the study of the sine, cosine, and tangent functions, including a study of their graphs, inverses of the functions, basic properties of the cotangent, secant, and cosecant functions, measurement of angles in degrees and in

radians, evaluating triangles, solving trigonometric equations, models for periodic phenomena, trigonometric identities, vectors, complex number, and polar coordinates.

MATH 260 PRECALCULUS

Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A),

C-ID (MATH 155)

Prerequisite: MATH 240 or MATH 258 or by Appropriate Placement (see p.22)

Students prepare for calculus, which covers the properties of polynomial, rational, algebraic, trigonometric, inverse trigonometric, exponential and logarithmic identities and equations, trigonometric form of complex numbers and de Moivre's theorem, nonlinear systems of equations and inequalities, vector algebra, and polar coordinates.

MATH 260S PRECALCULUS WITH SUPPORT

Units (Lec 5 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: MATH 240 or MATH 258 or by Appropriate Placement (see p.22)

Students prepare for calculus, which covers the properties of polynomial, rational, algebraic, trigonometric, inverse trigonometric, exponential and logarithmic identities and equations, trigonometric form of complex numbers and de Moivre's theorem, nonlinear systems of equations and inequalities, vector algebra, and polar coordinates.

MATH 261 CALCULUS I

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A),

C-ID (MATH 211)

Prerequisite: MATH 260 or by Appropriate Placement (see p.22)

This is the first of a three-course sequence in calculus. Topics include limits and continuity, rates of change, derivatives, applications of differentiation, integrals, the Fundamental Theorem of Calculus, and applications of integration.

MATH 262 CALCULUS II

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A),

C-ID (MATH 221)

Prerequisite: MATH 261 or by Appropriate Placement (see p.22)

This is the second in a three-course sequence in calculus. Topics include differentiation and integration of logarithmic, exponential, circular and hyperbolic functions and their inverses, indeterminate forms, improper integrals, standard techniques of integration, applications of integration to problems from economics, biology and probability, parametric equations and polar coordinates, infinite sequences and series, and representation of functions as power series.

MATH 263 CALCULUS III

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A),

C-ID (MATH 230)

Prerequisite: MATH 262 or by Appropriate Placement (see p.22)

Students solve problems from vectors calculus, parametric equations, surfaces, partial differentiation, gradient, maxima and minima for functions of several variables, multiple integrals, surface integrals, and line integrals. Students consider physical and mechanical applications of Green's theorem, divergence theorem, and Stokes' theorem.

MATH 270 LINEAR ALGEBRA

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A),

C-ID (MATH 250)

Prerequisite: MATH 261 or by Appropriate Placement (see p.22)

This course develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included.

MATH 272 METHODS OF DISCRETE MATHEMATICS

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A),

C-ID (MATH 160)

Prerequisite: MATH 262 or by Appropriate Placement (see p.22)

Students study logic, algorithms, number systems, mathematical induction, sets, counting principles, probability, Boolean algebra, logic network, pigeonhole principle, cardinality and computability, recurrence relations and recursion, graph theory, switching circuits, and trees.

MATH 275 ORDINARY DIFFERENTIAL EQUATIONS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B4), UC (IGETC Area 2A),

C-ID (MATH 240)

Prerequisite: MATH 262 or by Appropriate Placement (see p.22)

Students learn to categorize different types of differential equations. Students learn to use techniques such as separation of variables, exact differentials, homogeneity, and change-of-variable (substitution) to solve first-order equations as well as first-order initial value problems (IVPs). Students apply this knowledge to solve real-world problems such as population growth and mixture problems. Students learn to solve higher-order linear differential equations using constant coefficient technique, the method of undetermined coefficients and variation of parameters. Students apply this knowledge to physics applications such as simple harmonic motion. Students solve equations of higher-order with variable coefficients applying specific techniques based on the type of the given equations. Topics include: Cauchy-Euler equations, power series solutions, Bessel's equations, and Legendre's equation. Students learn the Laplace transform and its properties and apply this knowledge to solving various differential equations as well as IVPs. Students use techniques for solving systems of linear differential equations.

MANAGEMENT (MGMT)

MGMT 002 ORGANIZATION AND MANAGEMENT THEORY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students learn the basic process of the management of an organization. The course presents the process of achieving set goals and objectives in a formal organization. The course objectives include: (1) to provide the student with a basic framework of the subject matter through an overview of how an enterprise is organized and managed; (2) to develop student sensitivity to

the four key tools of management - planning, organizing, influencing, controlling; and (3) to introduce learning tracks by which students will appreciate the essence of management activities throughout the process and activities related to production, distribution, finance and administration, and decision-making.

MGMT 013 SMALL BUSINESS ENTREPRENEURSHIP

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students receive the fundamentals of how to organize and operate a small business.

MGMT 031 HUMAN RELATIONS FOR EMPLOYEES

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Students learn to recognize and develop those traits necessary for good relations with fellow workers, supervisors, subordinates, customers, and other business associates.

MGMT 033 HUMAN CAPITAL MANAGEMENT

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

The student will learn the essentials of human resource management. Topics include recruitment, selection, training, appraisals, compensations, benefits, labor relations, and collective bargaining.

MICROBIOLOGY (MICRO)

MICRO 001 INTRODUCTORY MICROBIOLOGY

5 Units (Lec 3 Hrs / Lab 6 Hrs)

Transfer Credit: CSU (CSUGE Area B2,B3), UC (IGETC Area 5B,5C)

Prerequisite: BIOLOGY 003 or PHYSIOL 001, CHEM 060

This is an introductory microbiology course developed to prepare students for careers in biological sciences, pharmacy, optometry, veterinary medicine, nursing, physician assistant, and other allied health professions. This course explores the early history of microbiology, microbial classification, morphology, physiology, genetics, and ecology. Other topics include controlling microbial populations, microbial pathogenicity, immunology, and microbiological technology and applications in modern society. Laboratory techniques emphasize fundamental microbiological techniques, concepts, and applications, including current molecular diagnostic methods in microbial genetics and immunology. This course includes more lab hours than MICRO 020, and it is recommended for students who need a 5-unit course with 6 hours of lab per week. This course is transferable as a major's preparation course for most CSUs and UC Irvine only. These majors may include: biology-related, nutrition, nursing, health science, kinesiology, dietetics, and various other majors. Students should consult with counselors to determine articulation of this course with their desired four-year institution and/or program.

MICRO 020 GENERAL MICROBIOLOGY

4 Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B2,B3), UC (IGETC Area 5B,5C)

Advisory: CHEM 060

This course was developed to prepare students for nursing and allied health majors. It examines principles in microbial classification, metabolism, genetics, and the roles of microorganisms as pathogens. Immunology and methods of controlling microbial growth are explored. Laboratory techniques emphasize

fundamental microbiological techniques, concepts, and applications, including current molecular diagnostic methods in microbial genetics and immunology. This course includes fewer lab hours than MICRO 001, and it is recommended for students who need a 4-unit course with 3 hours of lab per week. This course is only transferable as a major's preparation course for some CSUs and UC Irvine only (fewer four-year institutions accept MICRO 020 as a major's course). These majors may include: biology-related, nutrition, nursing, health science, kinesiology, dietetics, and various other majors. Students should consult with counselors to determine articulation of this course with their desired four-year institution and/or program.

MICRO 040 MICROBIOLOGY LABORATORY PREPARATIONS

1 Units (Lab 3 Hrs)

Transfer Credit: CSU

Corequisite: MICRO 001 or MICRO 020

Students prepare media and reagents normally used in a bacteriological laboratory with emphasis on safety and proper use and care of laboratory equipment and supplies.

MUSIC (MUSIC)

MUSIC 101 FUNDAMENTALS OF MUSIC

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C1), UC, C-ID (MUS 110)

(For the non-Music major.) A study of the fundamentals of music including notation, meter signatures and rhythms, major and minor scales and key signatures, intervals, triads, terms, and symbols. Some sight reading and ear training is included.

MUSIC 111 MUSIC APPRECIATION I

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A), C-ID (MUS 100)

The student learns about masterpieces of Western music from the Middle Ages to the present day with an emphasis on perceptive listening. Topics include the elements of music, musical forms, music periods, styles, and the role of music and musicians in the Western world.

MUSIC 116 SURVEY AND HISTORY OF ROCK, POP AND SOUL MUSIC

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A), C-ID (MUS 100)

Introduction to rock, pop, and soul music styles covering their origins, stylistic development and cultural impact. This course is designed to increase student awareness of the relationship between popular music and society.

MUSIC 118 FILM MUSIC APPRECIATION

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

This introductory survey course helps students understand, appreciate, and analyze the relationship between music and moving images in film. From the silent film era to the present day, this course examines various ways that a wide variety of musical styles have combined with visuals to form cinematic experiences.

MUSIC 121 MUSIC HISTORY AND LITERATURE I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)****Advisory: MUSIC 201**

The student studies music history and literature from earliest times to 1750, including music of the ancient Greeks, early Christians, Middle Ages, Renaissance and Baroque periods, through the music of Bach and Handel.

MUSIC 122 MUSIC HISTORY AND LITERATURE II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)****Advisory: MUSIC 201**

A survey of music history and music literature from 1750 to the present time, including music of the pre-Classic, Classic and Romantic periods, as well as Contemporary classical music.

MUSIC 135 AFRICAN AMERICAN MUSIC**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)**

A study of African and African-American music and their influence on folk, spirituals, gospels, concert music, opera, ballet, blues, and jazz underscoring styles, characteristics, origin, and contributions by African-American artists. (Credit allowed for only one of MUSIC 135 or AFRO AM 060.)

MUSIC 136 MUSIC IN AMERICAN CULTURE**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)**

A comparative and integrative study of the multi-cultural music styles of the United States. Emphasis is given to the music of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, tracing the development of these various musical traditions from their historical roots to their influence on contemporary American music.

MUSIC 137 MUSIC AS A BUSINESS**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

The student learns the skills and knowledge necessary for success in the many careers available in the music industry. Covers the roles of personal managers, agents, and attorneys; the process of producing, publishing, and copyrighting songs; and record production and marketing.

MUSIC 141 JAZZ APPRECIATION**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A), C-ID (MUS 100)**

An introduction to American jazz music including its origins, stylistic development, and cultural impact. This course is designed to increase student awareness of the relationship between jazz music and American society.

MUSIC 152-1 CURRENT MUSICAL EVENTS I**1 Units (Lab 2 Hrs)****Transfer Credit: CSU**

The student observes live concert performances, developing an understanding of the basic elements of music and acceptable audience behavior.

MUSIC 152-2 CURRENT MUSICAL EVENT II**1 Units (Lab 2 Hrs)****Transfer Credit: CSU**

The student observes and critiques live concert performances, developing an understanding of more advanced elements, styles, and forms of music.

MUSIC 161 INTRODUCTION TO MUSIC TECHNOLOGY**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC**

The student learns to record, program, and arrange music using computers and industry standard digital audio software. Topics include audio fundamentals, MIDI sequencing, DIY recording techniques, mixing, and current trends in music production.

MUSIC 180-1 APPLIED MUSIC LABORATORY I**1.5 Units (Lab 5 Hrs)****Transfer Credit: CSU Corequisite: MUSIC 181**

The student uses departmental practice rooms to further enhance appropriate techniques and repertoire for the specific instrument or voice being studied in the corequisite music course, with an emphasis on the progressive development of skills needed for solo performance. The focus is on playing or singing with precise rhythms, correct pitches and accurate intonation.

MUSIC 180-2 APPLIED MUSIC LABORATORY II**1.5 Units (Lab 5 Hrs)****Transfer Credit: CSU****Prerequisite: MUSIC 180-1****Corequisite: MUSIC 182**

The student uses departmental practice rooms to further enhance appropriate techniques and repertoire for the specific instrument or voice being studied in the corequisite music course, with an emphasis on the progressive development of skills needed for solo performance. The focus is on playing or singing with the articulation, dynamics, phrasing, and expression appropriate to the literature being studied, and if singing, diction appropriate to texts of the literature.

MUSIC 180-3 APPLIED MUSIC LABORATORY III**1.5 Units (Lab 5 Hrs)****Transfer Credit: CSU****Prerequisite: MUSIC 180-2****Corequisite: MUSIC 182**

The student uses departmental practice rooms to further enhance appropriate techniques and repertoire for the specific instrument or voice being studied in the corequisite music course, with an emphasis on the progressive development of skills needed for solo performance. The focus is on demonstrating appropriate blend and balance when performing with an accompanist, and playing or singing in a manner suitable to the genre, period, and style of the literature.

MUSIC 180-4 APPLIED MUSIC LABORATORY IV**1.5 Units (Lab 5 Hrs)****Transfer Credit: CSU****Prerequisite: MUSIC 180-3****Corequisite: MUSIC 184**

The student uses departmental practice rooms to further enhance appropriate techniques and repertoire for the specific instrument or voice being studied in the corequisite music course, with an emphasis on the progressive development of skills needed for solo performance. The focus is on memorizing performance literature and development of repertoire for exit recital and auditions for transfer.

MUSIC 181 APPLIED MUSIC I

0.5 Units (Lab 1 Hrs)
 Transfer Credit: CSU, UC, C-ID (MUS 160)
 Corequisite: MUSIC 180-1

The student studies appropriate techniques and repertoire for the specific instrument or voice being studied, with an emphasis on the progressive development of skills needed for solo performance. The focus is on playing or singing with precise rhythms, correct pitches, and accurate intonation. Achievement is evaluated through a juried performance.

MUSIC 182 APPLIED MUSIC II

0.5 Units (Lab 1 Hrs)
 Transfer Credit: CSU, UC, C-ID (MUS 160)
 Prerequisite: MUSIC 181
 Corequisite: MUSIC 180-2

The student studies appropriate techniques and repertoire for the specific instrument or voice being studied, with an emphasis on the progressive development of skills needed for solo performance. The focus is on playing or singing with the articulation, dynamics, phrasing, and expression appropriate to the literature being studied, and if singing, diction appropriate to texts of the literature. Achievement is evaluated through a juried performance.

MUSIC 183 APPLIED MUSIC III

0.5 Units (Lab 1 Hrs)
 Transfer Credit: CSU, UC, C-ID (MUS 160)
 Prerequisite: MUSIC 182
 Corequisite: MUSIC 180-3

The student studies appropriate techniques and repertoire for the specific instrument or voice being studied, with an emphasis on the progressive development of skills needed for solo performance. The focus is on demonstrating appropriate blend and balance when performing with an accompanist, and playing or singing in a stylistically appropriate manner suitable to the genre, period, and style of the literature. Achievement is evaluated through a juried performance.

MUSIC 184 APPLIED MUSIC IV

0.5 Units (Lab 1 Hrs)
 Transfer Credit: CSU, UC, C-ID (MUS 160)
 Prerequisite: MUSIC 183
 Corequisite: MUSIC 180-4

The student studies appropriate techniques and repertoire for the specific instrument or voice being studied, with an emphasis on the progressive development of skills needed for solo performance. The focus is on memorizing performance literature and development of repertoire for exit recital and auditions for transfer. Achievement is evaluated through a juried performance.

MUSIC 185 DIRECTED STUDY - MUSIC

1 Units (Lec 1 Hrs)
 Transfer Credit: CSU

Vocal and instrumental students pursue directed study on a contract basis under the direction of a supervising instructor.

MUSIC 200 INTRODUCTION TO MUSIC THEORY

4 Units (Lec 3 Hrs / Lab 2 Hrs)
 Transfer Credit: CSU (CSUGE Area C1), UC, C-ID (MUS 120 and MUS 125)

The student writes and recognizes rhythm and meter, basic properties of sound, intervals, diatonic scales and triads, diatonic chords, basic cadential formulas and phrase structure, dominant seventh chords, figured bass symbols, and

non-harmonic tones. The student applies and develops these materials through ear training, sight singing, analysis, and dictation. The student also develops skills in handwritten notation.

MUSIC 201 HARMONY I

3 Units (Lec 3 Hrs)
 Transfer Credit: CSU, UC, C-ID (MUS 130)
 Prerequisite: MUSIC 200
 Corequisite: MUSIC 211

The student writes and analyzes diatonic harmony including primary and secondary triads and the dominant seventh chord. Also includes figured bass and non-harmonic tones, as well as introducing two-part counterpoint, non-dominant seventh chords, secondary dominants, and modulation.

MUSIC 202 HARMONY II

3 Units (Lec 3 Hrs)
 Transfer Credit: CSU, UC, C-ID (MUS 140)
 Prerequisite: MUSIC 201
 Corequisite: MUSIC 212

The student writes and analyzes advanced diatonic and beginning chromatic harmony using seventh chords, modally borrowed chords, sequences, secondary dominants, simple modulations, basic musical forms, and the writing of original compositions.

MUSIC 203 HARMONY III

3 Units (Lec 3 Hrs)
 Transfer Credit: CSU, UC, C-ID (MUS 150)
 Prerequisite: MUSIC 202
 Corequisite: MUSIC 213

The student writes and analyzes advanced chromatic harmony using augmented chords, linear chromatic chords, Neapolitan chords, augmented-sixth chords, chromatic mediants, tall chords, altered chords, and enharmonic and chromatic modulation. The student also writes and analyzes jazz and modal harmony as well as twentieth century techniques including Impressionism, tone rows, set theory, polytonality/pandiatonism, and advanced meter/ rhythm.

MUSIC 205 COMMERCIAL HARMONY I

3 Units (Lec 3 Hrs)
 Transfer Credit: CSU, UC
 Prerequisite: MUSIC 200

Students learn harmonic chord progressions used in popular music including rock, jazz, Latin, funk, and fusion, among others. Students are introduced to song writing by adding a melody over given harmonic structures.

MUSIC 206 COMMERCIAL HARMONY II

3 Units (Lec 3 Hrs)
 Transfer Credit: CSU
 Prerequisite: MUSIC 205

The student learns commercial music terminology, notation, chord and scale structure, modes, blues and pentatonic scales, extended chords, bass line construction, harmonization of melodic lines, chord progressions, basic chord voicing, ear-training, and applied piano.

MUSIC 211 MUSICIANSHIP I

1 Units (Lab 3 Hrs)
 Transfer Credit: CSU, UC
 Prerequisite: MUSIC 200
 Corequisite: MUSIC 201

The student applies and develops the rhythmic, melodic, and harmonic materials of Harmony I through ear training, sight singing, analysis, and dictation.

MUSIC 212 MUSICIANSHIP II

1 Units (Lab 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 211
Corequisite: MUSIC 202

The student applies and develops the rhythmic, melodic, and harmonic materials of Harmony II through ear training, sight singing, analysis, and dictation.

MUSIC 213 MUSICIANSHIP III

1 Units (Lab 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 212
Corequisite: MUSIC 203

The student applies and develops the rhythmic, melodic, and harmonic materials of Harmony III through ear training, sight singing, analysis, and dictation.

MUSIC 221 COUNTERPOINT I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 202

The student studies 18th-century contrapuntal techniques in two, three and four voices, including species counterpoint, invertible counterpoint, motive development, and canon and resulting in analysis and composition of two-part inventions, binary dance forms, and three and four-part fugue expositions.

**MUSIC 223 TWENTIETH CENTURY
COMPOSITIONAL TECHNIQUES**

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 202

The student learns melodic, harmonic, and rhythmic techniques of the Twentieth Century, resulting in the writing of original compositions.

MUSIC 224 COMPOSITION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 201

The student composes instrumental works based on specific compositional techniques. The student will establish a solid technique in counterpoint, harmony, and instrumentation, resulting in a greater awareness of new compositional ideas and aesthetics. The goal is to apply those techniques and ideas to the development of a personal approach to composition.

MUSIC 231 ORCHESTRATION AND ARRANGING I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 201

The student studies instrumentation and beginning orchestration, including writing for various instrumental groups.

MUSIC 250 MUSIC PERFORMANCE WORKSHOP

1 Units (Lab 3 Hrs)
Transfer Credit: CSU, UC

The student prepares, rehearses, and performs selected musical works for small ensemble, focusing on rhythm, articulation, expression, blend and balance, appropriate performance practice, and professional standards of conduct. (Confirmation of enrollment is subject to audition.)

MUSIC 251-1 JAZZ IMPROVISATION WORKSHOP I

1 Units (Lab 3 Hrs)
Transfer Credit: CSU, UC

The student improvises and performs level one standard repertoire in a jazz combo setting. Focus is on swing, bebop, and blues. For intermediate to advanced jazz instrumentalists only.

MUSIC 251-2 JAZZ IMPROVISATION WORKSHOP II

1 Units (Lab 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 251-1

The student improvises and performs level two standard repertoire in a jazz combo setting. Focus is on modal and pentatonic scales and hard bop style. For intermediate to advanced jazz instrumentalists only.

MUSIC 251-3 JAZZ IMPROVISATION WORKSHOP III

1 Units (Lab 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 251-2

The student improvises and performs level three standard repertoire in a jazz combo setting. Focus is on modern jazz style. For intermediate to advanced jazz instrumentalists only.

MUSIC 251-4 JAZZ IMPROVISATION WORKSHOP IV

1 Units (Lab 3 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 251-3

The student improvises and performs level four standard repertoire in a jazz combo setting. Focus is on modern jazz style. For intermediate to advanced jazz instrumentalists only.

MUSIC 261-1 MUSIC TECHNOLOGY WORKSHOP I

3 Units (Lec 2 Hrs / Lab 2 Hrs)
Transfer Credit: CSU

The student learns advanced electro-acoustic MIDI and computer assisted music techniques for both the Mac and PC platforms. Emphasis is on MIDI and audio sequencing in Pro Tools.

MUSIC 261-2 MUSIC TECHNOLOGY WORKSHOP II

3 Units (Lec 2 Hrs / Lab 2 Hrs)
Transfer Credit: CSU

Prerequisite: MUSIC 261-1

This is the second in an advanced series of courses that emphasize the study and application of electronic, electro-acoustic, and digital music techniques. Technical, compositional, and performance skills applied to synthesizers, computers, MIDI, software applications, virtual instruments, and digital recording equipment will be introduced and developed.

MUSIC 261-3 MUSIC TECHNOLOGY WORKSHOP III

3 Units (Lec 2 Hrs / Lab 2 Hrs)
Transfer Credit: CSU

Prerequisite: MUSIC 261-2

The student continues to learn music production techniques, including signal processing, automation, video synchronization, and advanced audio editing.

MUSIC 270 DJ WORKSHOP

3 Units (Lec 2 Hrs / Lab 2 Hrs)

An introduction to the history of the modern DJ and the use of DJ equipment, turntables, synthesizers, computers, and recording equipment in the making of music. Topics include DJ-specific computer hardware and software, composing with modern sequencing techniques, MIDI (Musical Instrument Digital Interface), and basic digital audio. Students will demonstrate skills in a variety of professional DJ performance situations.

MUSIC 271 SONGWRITERS' WORKSHOP I**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU

Students learn the conventions of songwriting including lyrics, melody, the relationship of lyrics and music, harmony, and song structure. Students analyze a wide variety of songs and applies the conventions of songwriting in the composition and performance of original songs.

MUSIC 285 DIRECTED STUDY - MUSIC**2 Units (Lec 2 Hrs)**
Transfer Credit: CSU

Vocal and instrumental students pursue directed study on a contract basis under the direction of a supervising instructor.

MUSIC 291 MUSIC PRODUCTION FOR MULTIMEDIA I**2 Units (Lec 1 Hrs / Lab 2 Hrs)**
Transfer Credit: CSU, UC

The student learns music production techniques for commercial purposes with an emphasis on composing for commercials, video games, and motion picture. Topics covered include audio recording, mixing, and advanced MIDI techniques.

MUSIC 292 MUSIC PRODUCTION FOR MULTIMEDIA II**2 Units (Lec 1 Hrs / Lab 2 Hrs)**
Transfer Credit: CSU, UC
Prerequisite: MUSIC 291

The student continues to learn to produce original music for picture and other commercial applications. Topics covered include advanced mixing, automation, and controller manipulation.

MUSIC 311 PIANO I**1 Units (Lab 2 Hrs)**
Transfer Credit: CSU, UC

The student receives instruction in basic piano skills with an emphasis on learning to read music, play finger-patterns, scales, chords, and beginning pieces. Students are required to furnish their own headphones.

MUSIC 312 PIANO II**1 Units (Lab 2 Hrs)**
Transfer Credit: CSU, UC
Prerequisite: MUSIC 311

The student receives continued instruction in basic piano skills emphasizing note reading, simple major and minor scales in quarter and eighth note patterns, triads, repertoire, and memorization. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 313 PIANO III**1 Units (Lab 2 Hrs)**
Transfer Credit: CSU, UC
Prerequisite: MUSIC 312

The student receives continued instruction in developing piano skills with increasing emphasis on note reading, major and minor scale techniques, cadences, triads, repertoire from major historical periods, and memorization. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 314 PIANO IV**Units (Lab 2 Hrs)**
Transfer Credit: CSU, UC
Prerequisite: MUSIC 313

The student receives instruction in piano skills emphasizing major and minor scales; major and minor arpeggios; repertoire

from the Baroque, Classical, Romantic, and 20th Century; and memorization. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 321 ELEMENTARY PIANO I**Units (Lec 1.5 Hrs / Lab 1.5 Hrs)**
Transfer Credit: CSU

The student receives instruction in basic piano skills with an emphasis on learning to read music, play finger-patterns, scales, chords, and beginning pieces. Students are required to furnish their own headphones.

MUSIC 322 ELEMENTARY PIANO II**2 Units (Lec 1.5 Hrs / Lab 1.5 Hrs)**
Transfer Credit: CSU
Prerequisite: MUSIC 321

Continued instruction in basic piano skills emphasizing note reading, simple major and minor scales in quarter and eighth note patterns, triads, repertoire, and memorization. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 323 ELEMENTARY PIANO III**2 Units (Lec 1.5 Hrs / Lab 1.5 Hrs)**
Transfer Credit: CSU
Prerequisite: MUSIC 322

Continued instruction in developing piano skills with increasing emphasis on note reading, major and minor scale techniques, cadences, triads, repertoire from major historical periods, and memorization. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 324 ELEMENTARY PIANO IV**2 Units (Lec 1.5 Hrs / Lab 1.5 Hrs)**
Transfer Credit: CSU
Prerequisite: MUSIC 323

Instruction in piano skills emphasizing major and minor scales; major and minor arpeggios; repertoire from the Baroque, Classical, Romantic, and 20th Century; and memorization. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 341-1 INTERMEDIATE PIANO I**2 Units (Lec 1 Hrs / Lab 2 Hrs)**
Transfer Credit: CSU, UC
Prerequisite: MUSIC 314

The student studies, practices, and performs level one intermediate piano repertoire from the Baroque, Classical, Romantic, and Twentieth Century periods selected by the instructor. Repertoire to include the equivalent of Bach inventions, Diabelli sonatas, Schumann Kinderszenen, and Kabalevsky Op. 27. Technique to include the equivalent of Hanon 60 exercises #1-19, Czerny Op. 100 #10-20, and all melodic minor scales in four octaves with cadences. Public performances are required. For the piano student who has studied for two or more years of private or class piano.

MUSIC 341-2 INTERMEDIATE PIANO II**2 Units (Lec 1 Hrs / Lab 2 Hrs)**
Transfer Credit: CSU, UC
Prerequisite: MUSIC 341-1

The student studies, practices, and performs level two intermediate piano repertoire from the Baroque, Classical, Romantic, and Twentieth Century periods selected by the instructor. Repertoire to include the equivalent of Bach sinfonias, Haydn early sonatas, Chopin mazurkas and Bartok Mikrokosmos Book #3. Technique to include the equivalent of Hanon 60 exercises #20-29, Czerny Op. 100 #20-30, and all major scales in thirds in

four octaves with cadences. Public performances are required. For the piano student who has studied for two or more years of private or class piano.

MUSIC 341-3 INTERMEDIATE PIANO III

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 341-2

The student studies, practices, and performs level three intermediate piano repertoire from the Baroque, Classical, Romantic, and Twentieth Century periods selected by the instructor. Repertoire to include the equivalent of Bach Well Tempered Clavier Book 1, Mozart early sonatas, Mendelssohn Songs without Words Book 1, Shostakovich Preludes, Op. 34. Technique to include the equivalent of Hanon 60 exercises #30-39, Czerny Op. 299 #1-9, and all harmonic minor scales in thirds and arpeggios in four octaves with cadences. Public performances are required. For the piano student who has studied for two or more years of private or class piano.

MUSIC 341-4 INTERMEDIATE PIANO IV

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 341-3

The student studies, practices, and performs level four intermediate piano repertoire from the Baroque, Classical, Romantic, and Twentieth Century periods selected by the instructor. Repertoire to include the equivalent of Bach French Suites, Beethoven early sonatas, Schubert impromptus, and Prokofiev Visions Fugitives. Technique to include the equivalent of Hanon 60 exercises #40-60, Czerny, Op. 299 #10-20, all melodic minor scales in thirds, and arpeggios in four octaves with cadences. Public performances are required. For the piano student who has studied for two or more years of private or class piano.

MUSIC 361-1 COMMERCIAL PIANO TECHNIQUES WORKSHOP I

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

The student learns chords and chord progressions used in jazz and popular music styles as applied to the keyboard, focusing on chromatic seventh chords and sequences and the blues scale.

MUSIC 361-2 COMMERCIAL PIANO TECHNIQUES WORKSHOP II

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: MUSIC 361-1

The student learns chords and chord progressions used in jazz and popular music styles as applied to the keyboard, focusing on chromatic seventh chords and sequences, chord extensions, and the blues scale.

MUSIC 361-3 COMMERCIAL PIANO TECHNIQUES WORKSHOP III

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: MUSIC 361-2

The student learns chords and chord progressions used in jazz and popular music styles as applied to the keyboard, focusing on comping chords and rhythms, walking bass lines, chord substitutions, and various song forms.

MUSIC 361-4 COMMERCIAL PIANO TECHNIQUES WORKSHOP IV

Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: MUSIC 361-3

The student learns chords and chord progressions used in jazz and popular music styles as applied to the keyboard, focusing on the jazz styles of blues, swing, ballad, bebop, and Latin. Students will also realize lead sheets into two-hand piano arrangements.

MUSIC 385 DIRECTED STUDY - MUSIC

Units (Lec 3 Hrs)

Transfer Credit: CSU

Vocal and instrumental students pursue directed study on a contract basis under the direction of a supervising instructor.

MUSIC 400 VOICE FUNDAMENTALS

1 Units (Lab 2 Hrs)

Transfer Credit: CSU, UC

Students learn the fundamentals of singing, and perform simple songs and exercises. Students demonstrate an understanding of the singing mechanism, the body as a musical instrument, and develop vocal potential.

MUSIC 401 CLASSICAL VOICE I

1 Units (Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 400

The student concentrates on general basic fundamentals of singing using vocal exercises and simple arias and art songs in Italian. Italian pronunciation and vocal style will be studied. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 402 CLASSICAL VOICE II

1 Units (Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 401

The student learns the basic fundamentals of singing using vocal exercises, simple arias and art songs in German. German pronunciation and vocal style will be studied. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 403 CLASSICAL VOICE III

1 Units (Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 402

The student learns the basic fundamentals of singing using vocal exercises, simple arias and art songs in French. French pronunciation and vocal style will be studied. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 404 CLASSICAL VOICE IV

1 Units (Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 403

The student learns the fundamentals of singing using more advanced vocal exercises, arias and art songs in French, German, and Italian. Focus is on interpretation and pronunciation. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 431 COMMERCIAL VOICE I

1 Units (Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: MUSIC 400

The student concentrates on the basic fundamentals of singing using vocal exercises and songs selected from the commercial

song literature. Course includes coaching sessions with class accompanist. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 432 COMMERCIAL VOICE II

1 Units (Lab 2 Hrs)
Transfer Credit: CSU
Prerequisite: MUSIC 431

The student concentrates on the singing voice using more difficult vocal exercises and songs from the many areas of commercial vocal music. Stylistic interpretation and performance practices will be emphasized. Course includes coaching sessions with class accompanist. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 433 COMMERCIAL VOICE III

1 Units (Lab 2 Hrs)
Transfer Credit: CSU
Prerequisite: MUSIC 432

The more advanced singer concentrates on the study through performance of the stylistic interpretations and performance practices of the many areas of commercial vocal music. Course includes coaching sessions with class accompanist. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 434 COMMERCIAL VOICE IV

1 Units (Lab 2 Hrs)
Transfer Credit: CSU
Prerequisite: MUSIC 433

The advanced singer concentrates on the stylistic interpretations and performance practice of commercial vocal music, focusing on mic technique and the development of a unique personal style. Course includes coaching sessions with class accompanist. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 501 COLLEGE CHOIR

1 Units (RPT 3) (Lab 3 Hrs)
Transfer Credit: CSU, UC, C-ID (MUS 180)

The student prepares, rehearses, and performs selected musical works for beginning choir, focusing on rhythm, intonation, articulation, expression, blend and balance, following the conductor, appropriate performance practice, and professional standards of conduct.

MUSIC 531 PHILHARMONIC CHOIR

1 Units (RPT 3) (Lab 3 Hrs)
Transfer Credit: CSU, UC, C-ID (MUS 180)

The student prepares, rehearses, and performs selected musical works for a large intermediate choir, focusing on rhythm, intonation, articulation, expression, blend and balance, following the conductor, appropriate performance practice, and professional standards of conduct. (Confirmation of enrollment subject to audition.)

MUSIC 561 CHAMBER CHORALE

Units (RPT 3) (Lab 3 Hrs)
Transfer Credit: CSU, UC, C-ID (MUS 180)

The student prepares, rehearses, and performs selected musical works for a small advanced choir, focusing on rhythm, intonation, articulation, expression, blend and balance, following the conductor, appropriate performance practice, and professional standards of conduct. (Confirmation of enrollment subject to audition.)

MUSIC 601 BRASS INSTRUMENT INSTRUCTION I

Units (Lec 1 Hrs / Lab 2 Hrs)
Transfer Credit: CSU, UC

The student receives basic instruction on the brass instruments, including trumpet, French horn, trombone, and tuba. Some instruments available to loan to enrolled students. Open to all students.

MUSIC 602 BRASS INSTRUMENT INSTRUCTION II

2 Units (Lec 1 Hrs / Lab 2 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 601

The student learns more advanced brass instrument techniques with emphasis on the development of embouchure, range, endurance, and music reading skills. Some instruments available to loan to enrolled students. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 603 BRASS INSTRUMENT INSTRUCTION III

2 Units (Lec 1 Hrs / Lab 2 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 602

The student learns more advanced brass instrument techniques with increased emphasis in all areas covered. Primary emphasis is on interpretation of more complex rhythmic notation and performance skills. Some instruments available to loan to enrolled students. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 604 BRASS INSTRUMENT INSTRUCTION IV

2 Units (Lec 1 Hrs / Lab 2 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 603

The student learns more advanced brass instrument techniques with increased emphasis in all areas covered. Primary emphasis is on interpretation of solo and small ensemble literature. Some instruments available to loan to enrolled students. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 611 STRING INSTRUMENT INSTRUCTION I

2 Units (Lec 1 Hrs / Lab 2 Hrs)
Transfer Credit: CSU, UC

The student receives basic instruction on the string instruments, either violin, viola, cello, or bass. Some instruments available to loan to enrolled students. Open to all students.

MUSIC 612 STRING INSTRUMENT INSTRUCTION II

2 Units (Lec 1 Hrs / Lab 2 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 611

The student learns more advanced string instrument techniques with increased emphasis in all areas covered. Primary emphasis is on development of bow and fingering techniques and music reading skills. Some instruments available to loan to enrolled students. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 613 STRING INSTRUMENT INSTRUCTION III

2 Units (Lec 1 Hrs / Lab 2 Hrs)
Transfer Credit: CSU, UC
Prerequisite: MUSIC 612

The student learns more advanced string instrument techniques with increased emphasis in all areas covered. Primary emphasis is on development of bow and fingering technique

in third position and music reading skills. Some instruments available to loan to enrolled students. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 614 STRING INSTRUMENT INSTRUCTION IV

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 613

The student learns more advanced string instrument techniques with increased emphasis in all areas covered. Primary emphasis is on interpretation of advanced solo and small ensemble literature. Some instruments available to loan to enrolled students. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 621 WOODWIND INSTRUMENT INSTRUCTION I

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

The student learns basic woodwind instrument techniques. Includes flute, oboe, clarinet, bassoon, and saxophone. Some instruments available to loan to enrolled students. Open to all students.

MUSIC 622 WOODWIND INSTRUMENT INSTRUCTION II

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 621

The student learns more advanced woodwind instrument techniques with increased emphasis in all areas covered. Primary emphasis is on embouchure development, range, endurance, and music reading skills. Some instruments available to loan to enrolled students. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 623 WOODWIND INSTRUMENT INSTRUCTION III

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 622

The student learns more advanced woodwind instrument techniques with increased emphasis in all areas covered. Primary emphasis is on interpretation of more complex rhythmic notation and performance skills. Some instruments available to loan to enrolled students. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 624 WOODWIND INSTRUMENT INSTRUCTION IV

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 623

The student learns more advanced woodwind instrument techniques with increased emphasis in all areas covered. Primary emphasis is on interpretation of advanced solo and small ensemble literature. Some instruments available to loan to enrolled students. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 631 PERCUSSION INSTRUMENT INSTRUCTION I

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

The student learns basic rhythms, rudiments, beginning notation, and meters as applied to the snare drum and 2-mallet percussion instruments.

MUSIC 632 PERCUSSION INSTRUMENT INSTRUCTION II

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 631

The student continues with basic rhythms, rudiments, beginning notation, and meters as applied to the snare drum and related percussion instruments.

MUSIC 633 PERCUSSION INSTRUMENT INSTRUCTION III

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 632

The student receives intermediate instruction on percussion instruments and develop greater skill in the reading of percussion notation and in the playing of drum set. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 634 PERCUSSION INSTRUMENT INSTRUCTION IV

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 633

The advanced student develops greater skill in the reading of percussion notation and in the playing of drum set as it relates to contemporary funk styles. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 650 BEGINNING GUITAR

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

The student learns basic positioning of body and hands, music notation and reading, finger picking, and chord accompaniment. Designed for students with no previous musical training. Student must provide own guitar.

MUSIC 651 CLASSICAL GUITAR I

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 650

The student reinforces fundamental music reading, right and left-hand playing techniques, and performance of elementary solo guitar compositions. For students who wish to continue beyond the beginning level. Student must provide own guitar. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 652 CLASSICAL GUITAR II

2 Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: MUSIC 651

This course is for intermediate level students who want to progress further into more complex and technically demanding compositions. Greater playing skill is achieved through performance and evaluation of numerous exercises and solos. Student must provide own guitar. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 653 CLASSICAL GUITAR III**2 Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Prerequisite: MUSIC 652**

Intermediate to advanced students probe deeper into analysis and performance practices of the classical guitarist. Compositions of greater harmonic and technical complexity are evaluated and performed. Student must provide own guitar. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 654 CLASSICAL GUITAR IV**2 Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Prerequisite: MUSIC 653**

The student analyzes, prepares, and performs advanced compositions for classical guitar, incorporating the full range of classical guitar techniques. Musicianship and aesthetics of music are considered in depth. Ensembles of various sizes prepare and perform music from all eras.

MUSIC 661 COMMERCIAL GUITAR I**2 Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC**

Students interested in popular and jazz guitar techniques explore topics such as chords, scales, blues, and swing patterns. Students also practice soloing styles and accompaniment techniques as well as ensemble playing in jazz bands and combos.

MUSIC 662 COMMERCIAL GUITAR II**2 Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: MUSIC 661**

Students interested in more advanced popular and jazz guitar techniques explore topics such as major, minor, and blues chords and associated scales. Students also practice more advanced blues and swing style rhythmic patterns, soloing styles and accompaniment techniques, and ensemble playing in jazz bands and combos.

MUSIC 663 COMMERCIAL GUITAR III**2 Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: MUSIC 662**

Students interested in more advanced popular and jazz guitar techniques explore topics such as jazz chords, chord substitution, and associated scales. Students also practice more advanced blues and swing style rhythmic patterns, soloing styles and accompaniment techniques, and ensemble playing in jazz bands and combos.

MUSIC 664 COMMERCIAL GUITAR IV**2 Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Prerequisite: MUSIC 663**

Students interested in more advanced popular and jazz guitar techniques explore topics such as advanced sight-reading and improvisation skills, advanced jazz chords and chord substitutions with associated scales, comping styles, the application of more advanced technical skills necessary for the performing amateur and professional guitarist, and ensemble playing in jazz bands and combos.

MUSIC 670 FINGERBOARD HARMONY**2 Units (Lec 1 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: MUSIC 650**

Students further their understanding of chord construction and progressions on the guitar. (If prerequisite is not met, enrollment is subject to audition.)

MUSIC 702 COMMERCIAL ENSEMBLE**1 Units (Lab 3 Hrs)****Transfer Credit: CSU, C-ID (MUS 180)**

Rehearsal and performance of commercial music including the blues, rock, pop, R&B, hip-hop, current popular music, electronic music, and original material. Open to instrumentalists, MIDI instruments/controllers, vocalists, MCs, and DJs. Music is prepared for public performances.

MUSIC 705 CHAMBER MUSIC**1 Units (RPT 3) (Lab 3 Hrs)****Transfer Credit: CSU, UC**

The student prepares, rehearses, and performs selected musical works for chamber ensemble, focusing on rhythm, articulation, expression, blend and balance, appropriate performance practice, and professional standards of conduct. (Confirmation of enrollment subject to audition.)

MUSIC 711 REHEARSAL ORCHESTRA**1 Units (RPT 3) (Lab 3 Hrs)****Transfer Credit: CSU, UC, C-ID (MUS 180)**

The student prepares, rehearses, and performs selected musical works for orchestra, focusing on rhythm, intonation, articulation, expression, blend and balance, following the conductor, appropriate performance practice, and professional standards of conduct. (Confirmation of enrollment subject to audition.)

MUSIC 725 COMMUNITY ORCHESTRA**1 Units (RPT 3) (Lab 3 Hrs)****Transfer Credit: CSU, UC, C-ID (MUS 180)**

The student prepares, rehearses, and performs selected large musical works for orchestra, focusing on rhythm, intonation, articulation, expression, blend and balance, following the conductor, appropriate performance practice, and professional standards of conduct. (Confirmation of enrollment subject to audition.)

MUSIC 751 WIND ENSEMBLE**1 Units (RPT 3) (Lab 3 Hrs)****Transfer Credit: CSU, UC, C-ID (MUS 180)**

The student prepares, rehearses, and performs selected musical works for wind ensemble, focusing on rhythm, intonation, articulation, expression, blend and balance, following the conductor, appropriate performance practice, and professional standards of conduct. (Confirmation of enrollment subject to audition.)

MUSIC 765 PERCUSSION ENSEMBLE**1 Units (RPT 3) (Lab 3 Hrs)****Transfer Credit: CSU, UC, C-ID (MUS 180)**

The student prepares, rehearses, and performs selected musical works for percussion ensemble, focusing on rhythm, articulation, expression, blend and balance, following the conductor, appropriate performance practice, and professional standards of conduct. (Confirmation of enrollment subject to audition.)

MUSIC 771 GUITAR ENSEMBLE

1 Units (RPT 3) (Lab 3 Hrs)
Transfer Credit: CSU, UC

The student prepares, rehearses, and performs selected musical works for guitar ensemble, focusing on rhythm, intonation, articulation, expression, blend and balance, following the conductor, appropriate performance practice, and professional standards of conduct. (Confirmation of enrollment subject to audition.)

MUSIC 781 STUDIO JAZZ BAND

1 Units (RPT 3) (Lab 4 Hrs)
Transfer Credit: CSU, UC, C-ID (MUS 180)

The student prepares, rehearses, and performs selected musical works for jazz band, focusing on rhythm, intonation, articulation, expression, blend and balance, following the conductor, improvisation of solos, and professional standards of conduct. (Confirmation of enrollment subject to audition.)

MUSIC 782 JAZZ COMBOS

1 Units (Lab 3 Hrs)
Transfer Credit: CSU, UC

The student learns to perform and arrange repertoire for small jazz ensembles. This course is designed for intermediate to advanced instrumentalists and vocalists. (Confirmation of enrollment subject to audition.)

MUSIC 783-1 POP MUSIC WORKSHOP I

1 Units (Lab 3 Hrs)
Transfer Credit: CSU

Students rehearse and perform pop songs, folk music, rock music, musical pieces, and/or Broadway musical songs in a variety of small combo settings. Emphasis is placed on presentation and live performance.

MUSIC 783-2 POP MUSIC WORKSHOP II

1 Units (Lab 3 Hrs)
Transfer Credit: CSU
Prerequisite: MUSIC 783-1

Students rehearse and perform assigned second level pop songs, folk music, rock music, musical pieces, and/or Broadway musical songs in a variety of small combo settings. Emphasis is placed on presentation and live performance.

MUSIC 783-3 POP MUSIC WORKSHOP III

1 Units (Lab 3 Hrs)
Transfer Credit: CSU
Prerequisite: MUSIC 783-2

Students rehearse and perform assigned third level pop songs, folk music, rock music, musical pieces, and/or Broadway musical songs in a variety of small combo settings. Emphasis is placed on presentation and live performance.

MUSIC 783-4 POP MUSIC WORKSHOP IV

1 Units (Lab 3 Hrs)
Transfer Credit: CSU
Prerequisite: MUSIC 783-3

Students rehearse and perform assigned fourth level pop songs, folk music, rock music, musical pieces, and/or Broadway musical songs in a variety of small combo settings. Emphasis is placed on presentation and live performance.

PHILOSOPHY (PHILOS)**PHILOS 001 INTRODUCTION TO PHILOSOPHY**

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), C-ID (PHIL 100)
Advisory: ENGLISH 101

This course 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, religion, science, language, beauty and art, and political theory.

PHILOS 005 CRITICAL THINKING AND COMPOSITION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area A3), UC (IGETC Area 1B)
Prerequisite: ENGLISH 101

Students develop critical thinking skills necessary for evaluating and formulating argumentative/persuasive essays. Instruction in writing is a central focus of this course.

PHILOS 006 LOGIC IN PRACTICE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area A3), UC
Advisory: ENGLISH 101

Students learn how to understand, evaluate, and distinguish arguments and explanations by applying accepted standards of good reasoning. Students will learn techniques to recognize deductively valid arguments and avoid fallacies. They will also consider what is required for inductively strong arguments in order to avoid informal fallacies. This may include examples from advertising and political rhetoric.

PHILOS 008 DEDUCTIVE LOGIC

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area A3), UC, C-ID (PHIL 110)
Advisory: ENGLISH 101, PHILOS 005 or PHILOS 006

This course introduces some principles of valid reasoning with emphasis on deductive logic, and includes a study of formal techniques of propositional logic. The course may also include a treatment of inductive reasoning, language, or fallacies.

PHILOS 009 SYMBOLIC LOGIC I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area A3), UC, C-ID (PHIL 210)
Advisory: ENGLISH 101, PHILOS 005 or PHILOS 006

Students learn to translate, analyze, and evaluate arguments in modern symbolic logic by employing the principles and methods of propositional and predicate logic.

PHILOS 014 HISTORY OF MODERN EUROPEAN PHILOSOPHY

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), C-ID (PHIL 140)
Advisory: ENGLISH 101, PHILOS 001

This course addresses 16th through 18th century philosophy with emphasis on broad epistemological and/or metaphysical developments of empiricism and rationalism in philosophical thought from Descartes to Kant and may include approximate precursors and successors.

PHILOS 020 ETHICS**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), C-ID (PHIL 120)****Advisory: ENGLISH 101**

This course examines the concept of morality and values, representative historical and contemporary ethical theories, and their applications to moral problems.

PHILOS 030 ASIAN PHILOSOPHY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Advisory: ENGLISH 101, PHILOS 001**

Students distinguish between the major philosophies of India, China, and Japan, including Hinduism, Buddhism, Confucianism, and Taoism. Consideration is given to the differences between Eastern and Western thought.

PHILOS 032 PHILOSOPHY OF RELIGION**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Advisory: ENGLISH 101, PHILOS 001**

The student learns the significant historical and contemporary philosophical concepts found in religions. The course emphasizes the exposition, discussion, and analysis of the rationality of religious beliefs.

PHILOS 040 INTRODUCTION TO THE PHILOSOPHY OF ART**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)****Advisory: ENGLISH 101, PHILOS 001 or PHILOS 020**

Students are introduced to the meaning of art, the meaning of beauty, truth in art, creativity, and various philosophical theories regarding the nature of art.

PHOTOGRAPHY (PHOTO)**PHOTO 001 ELEMENTARY PHOTOGRAPHY****6 Units (Lec 3 Hrs / Lab 9 Hrs)****Transfer Credit: CSU****Prerequisite: PHOTO 010**

The student learns all phases of professional techniques, emphasizing view camera operation, exposure and development control of film, printing for optimum technical and aesthetic values, basic lighting techniques, theory of photographic processes, and basic sensitometry. Estimated material cost is approximately \$300. Owning a professional quality light meter is recommended. Owning medium format or 4x5 camera equipment is not essential. This is a required course for photography majors.

PHOTO 007 EXPLORING DIGITAL PHOTOGRAPHY**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU**

The student learns the uses and applications of professional digital SLR cameras in this introductory course. Camera controls, elements of composition, and photographing with natural light will be stressed. Professional digital cameras may be provided by the department for student usage. Students may use their own cameras to supplement assignments. Owning a digital camera is not a requirement but is highly recommended.

PHOTO 010 BEGINNING PHOTOGRAPHY**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC**

The student learns the basic principles of black and white analog photography from the mechanical creation of the image with camera and film to enlarging the photograph for display, while applying the guidelines of composition, communication and self-expression. 35mm single lens camera required. Automatic cameras are acceptable, but they must have manual shutter speed and lens opening capability. An approximate supply cost is \$175. Student must attend the first lecture meeting, or be replaced by students wishing to add. This is a traditional darkroom class.

PHOTO 015 FUNDAMENTALS OF PORTRAITURE**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: PHOTO 001 or PHOTO 107**

Students learn to create individualized portraits utilizing a wide variety of traditional lighting styles both on location with available light, and in the studio with professional tungsten lighting and electronic strobes. Students learn how model selection, posing techniques, wardrobe, props, locations, and other factors contribute to the total professional portrait. Students will make portraits of individuals, couples, and groups. Students learn to make decisions regarding camera format including digital and film, printing, and presentation.

PHOTO 017 INTRODUCTION TO COLOR PHOTOGRAPHY**Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: PHOTO 010**

The student learns the basic principles of color analog photography by printing from color negatives. There is an emphasis on color correction, color balance, and color theory. Natural light and available light and their characteristics are studied so the student is able to learn about the individual's perception and interpretation of color as seen and photographed while applying the guidelines of composition, communication and self-expression. This is a traditional darkroom class in 35mm color photography.

PHOTO 020 BEGINNING PHOTOJOURNALISM**Units (Lec 2 Hrs / Lab 6 Hrs)****Transfer Credit: CSU, C-ID (JOUR 160)****Advisory: PHOTO 007**

Students learn to create dynamic photographs for publication, including for online and printed newspapers, magazines, wire services, websites, and for campus publications. The primary emphasis is on digital photography and its use in the fields of journalism and publication. Students use cameras and computers, applying the techniques of image capture and post-production image enhancement, in the pursuit of photojournalistic methods and visual news gathering.

PHOTO 022 CREATIVE PHOTO-VISION**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Prerequisite: PHOTO 001****Advisory: PHOTO 107**

The student learns sensitive seeing through avenues of self-expression in nontraditional photographic techniques including non-silver processes, collage, hand-coloring, serial imagery, and other alternative processes. The student explores the creative and artistic applications of the materials and processes of

silver and non-silver photography. Emphasis is placed on the combining of technical skill with the aesthetic and expressive use of the media.

PHOTO 034 HISTORY OF PHOTOGRAPHY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)

Advisory: ENGLISH 028, ENGLISH 067

Students recognize and identify the major historical developments of in photography including major technological inventions and advancements, styles and movements, and important photographers from 1826 through 1960. Special attention is paid to the impact of the photographic image and how it has shaped modern art and culture worldwide.

PHOTO 046 PHOTOGRAPHIC DIGITAL IMAGING

3 Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

In this beginning course, students will utilize Adobe Photoshop tools to solve practical photographic problems such as color and tonal correction and retouching. Students will also learn non-destructive image editing techniques to maintain the highest quality images possible and will correctly prepare files for both print and web output.

PHOTO 049 ADVANCED PHOTOGRAPHIC DIGITAL IMAGING

6 Units (Lec 3 Hrs / Lab 9 Hrs)

Transfer Credit: CSU Prerequisite: PHOTO 046

Advisory: PHOTO 007

Students learn advanced digital imaging/Photoshop techniques, scanning, self-promotion through Web content, and branding to enhance their marketability in the digital arena. Students will use computers and photographic digital software to alter, enhance, and create new images that can be output to print and digital media. Detailed instruction in the application of Adobe Photoshop will be covered. Development of concept and design, and the use of photographic images are emphasized. Creation of specialized projects will integrate digital image manipulation, compositing/collaging, retouching, editing, and other specialized Photoshop techniques.

PHOTO 050 SPECIALTY FIELDS

3 Units (Lab 9 Hrs)

Prerequisite: PHOTO 001 or PHOTO 107

The advanced student contracts with the instructor to produce an independent study photography project that is the basis of a free-lance, photojournalistic, commercial or fine art photographic portfolio. The student designs a portfolio based on individual concepts and goals under the guidance of the instructor.

PHOTO 107 INTERMEDIATE DIGITAL PHOTOGRAPHY

3 Units (Lec 2 Hrs / Lab 3 Hrs)

Transfer Credit: CSU

Prerequisite: PHOTO 007, PHOTO 046

The student learns all levels of digital imagery workflow, from image ingestion through pre-production, production, delivery, and archiving while working on course projects.

PHOTO 501 MEDIA AESTHETICS AND DESIGN FOR FILM AND DIGITAL MEDIA

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A),

C-ID (FTVE 100 or FTVE 105)

Advisory: PHOTO 007

(Same as CINEMA 501) The student learns the analysis of film and modern visual media, including the cinema, television, the Internet, advertising, social networking, and fine art. The student learns to examine the broad questions of form and content, aesthetics and meaning, and history and culture, exploring the diverse possibilities presented by the cinematic art form through an examination of a wide variety of productions, national cinemas, and film movements. Topics include modes of production, narrative and non-narrative forms, visual design, editing, sound, genre, ideology, and critical analysis. This course is recommended for all cinema and photography majors, and is open to graphic artists as well as the general public.

PHOTO 911 COOPERATIVE EDUCATION - PHOTOGRAPHY

1 Units (RPT 3) (Lec 1 Hrs)

Transfer Credit: CSU

Advisory: PHOTO 107, PHOTO 001

Students receive credit for approved internships with an employer in the photography industry. The work site must be approved by the Department Chair.

PHYSICAL SCIENCE (PHYS SC)

PHYS SC 010 PHYSICS AND THE MOVIES

Units (RPT 1) (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1)

Advisory: ENGLISH 028

The student learns the basic principles of physics: mechanics, forces, Newton's laws, fluids, oscillations, heat, optics, sound, electricity and magnetism, and relativity, by applying them to analyses of popular movie scenes to gauge their level of physical plausibility and realism.

PHYSICS (PHYSICS)

PHYSICS 006 GENERAL PHYSICS I

Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C),

C-ID (PHYS 105)

Prerequisite: MATH 240

Students learn the fundamentals of Newtonian physics, such as mechanics, heat, and sound. This course is designed for majors in Health and Life Sciences, Architecture, and all those needing a one-year course in college physics requiring trigonometry but not calculus.

PHYSICS 007 GENERAL PHYSICS II

4 Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C),

C-ID (PHYS 110)

Prerequisite: PHYSICS 006

Students learn the later developments of physics leading through electricity and magnetism to optics, relativity and quantum theory, and atomic and nuclear physics. This course

is designed for majors in Health and Life Sciences, Architecture, and all those needing a one-year course in college physics requiring trigonometry but not calculus.

PHYSICS 011 INTRODUCTORY PHYSICS

4 Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C)

Prerequisite: MATH 240

Students learn the essential principles of physics in a wide range of topics including kinematics of one- and two-dimensional motion, circular motion, Newton's laws, work and energy, thermodynamics, wave motion, oscillation, optics, electricity and magnetism, and nuclear and atomic physics. Students analyze conceptual questions as well as solve quantitative problems using Algebra. Students learn how to use laboratory equipment to gain practical experience of the application of the scientific method in the field of physics.

PHYSICS 012 PHYSICS FUNDAMENTALS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1), UC (IGETC Area 5A)

Advisory: ENGLISH 028, ENGLISH 067

Students learn a practical and historical overview of basic physics, including laws of motion, properties of matter, heat, sound, electricity and magnetism, light, atomic and nuclear physics, and relativity, and is reminded of their role in technology and culture today. No mathematical preparation is needed. If a student wishes to transfer this as a lab science course, the student must also complete PHYSICS 014.

PHYSICS 014 PHYSICS FUNDAMENTALS LABORATORY

1 Units (Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B3), UC (IGETC Area 5C)

Corequisite: PHYSICS 012

Advisory: ENGLISH 021

The student will learn to use basic laboratory techniques to understand and apply simple physical laws and concepts, including the use of graphs, calculators and simple measurements to understand and measure the speed of sound, forces, densities, velocities, indexes of refraction, specific heats, and verify Hooke's law, Boyle's law, and Ohm's law. When taken with or after PHYSICS 012, it completes the units requirement for a Natural Science course with laboratory.

PHYSICS 021 GENERAL PHYSICS I WITH CALCULUS

4 Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C)

Prerequisite: PHYSICS 011 or HIGH SCHOOL PHYSICS

Corequisite: MATH 261

PHYSICS 021 is the first of a two-semester, calculus-based, sequence of general physics courses. (PHYSICS 022 completes the sequence.) This sequence is recommended and designed for pre-medical students, Life Science students and other students who require a two-semester, calculus-based, sequence of physics courses. Topics covered in PHYSICS 021 include mechanics, waves, and fluids, with an emphasis on applications to the life sciences.

PHYSICS 022 GENERAL PHYSICS II WITH CALCULUS

Units (Lec 3 Hrs / Lab 3 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C)

Prerequisite: PHYSICS 021

Life-sciences students, premedical students, and other students who require a two-semester calculus-based sequence of physics courses can benefit from this course. Topics covered

in PHYSICS 022 include thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. There is an emphasis on applications to the life sciences.

PHYSICS 101 PHYSICS FOR ENGINEERS AND SCIENTISTS I

Units (Lec 3 Hrs / Lab 6 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C),

C-ID (PHYS 205)

Prerequisite: MATH 261

Advisory: PHYSICS 011

The student learns the fundamental principles and applications of Newton's laws in classical mechanics, including motion in one and two dimensions, gravitation, rotation, energy, momentum, periodic motion, and fluid mechanics at the beginning calculus level of mathematics. The laboratory includes both quantitative and qualitative experiments that permit students to verify, illustrate, and deduce various laws of physics.

PHYSICS 102 PHYSICS FOR ENGINEERS AND SCIENTISTS II

5 Units (Lec 3 Hrs / Lab 6 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C),

C-ID (PHYS 210)

Prerequisite: PHYSICS 101

Corequisite: MATH 262

The student learns the fundamental principles and applications of introductory thermodynamics (temperature, heat, heat engines, entropy, and other topics), and electricity and magnetism (electric forces, electric fields, potential, magnetism, magnetic forces and fields, capacitance, resistance, inductance, DC and AC circuits, and other topics) at the beginning calculus level of mathematics. The laboratory includes both quantitative and qualitative experiments that permit students to verify, illustrate, and deduce various laws of physics.

PHYSICS 103 PHYSICS FOR ENGINEERS AND SCIENTISTS III

5 Units (Lec 3 Hrs / Lab 6 Hrs)

Transfer Credit: CSU (CSUGE Area B1,B3), UC (IGETC Area 5A,5C),

C-ID (PHYS 215)

Prerequisite: PHYSICS 102

Corequisite: MATH 263

Students learn the topics of mechanical waves, electromagnetic waves, light and optics, relativity, introductory quantum mechanics, and atomic and nuclear physics. Topics in molecular physics and condensed matter, as well as particle physics may also be included. The laboratory includes both quantitative and qualitative experiments which enable students to verify, illustrate, and deduce some of the laws of physics that apply to the topics covered.

PHYSICS 161 ASTROPHYSICS AND COSMOLOGY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU, UC

Prerequisite: PHYSICS 101

Corequisite: PHYSICS 102

Students learn various aspects of astrophysics and cosmology, including elements of general relativity, the physics of pulsars, cosmic rays, and black holes. Topics include the cosmological distance scale, elementary cosmological models, and the mass density and age of the universe. Evidence for dark matter and concepts of the early universe and of galaxy formation are also presented. The student reflects on astrophysics as a probe of the extremes of physics.

PHYSICS 185 DIRECTED STUDY - PHYSICS**Units (Lec 1 Hrs)**
Transfer Credit: CSU

Allow students to pursue Directed Study on a contract basis under the direction of a supervising instructor.

PHYSICS 285 DIRECTED STUDY - PHYSICS**Units (Lec 2 Hrs)**
Transfer Credit: CSU

Allow students to pursue Directed Study on a contract basis under the direction of a supervising instructor.

PHYSICS 385 DIRECTED STUDY - PHYSICS**Units (Lec 3 Hrs)**
Transfer Credit: CSU

Allow students to pursue Directed Study on a contract basis under the direction of a supervising instructor.

PHYSIOLOGY (PHYSIOL)**PHYSIOL 001 INTRODUCTION TO HUMAN PHYSIOLOGY****Units (Lec 3 Hrs / Lab 3 Hrs)**
Transfer Credit: CSU (CSUGE Area B2,B3), UC (IGETC Area 5B,5C)
Prerequisite: ANATOMY 001

Study of 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.

POLITICAL SCIENCE (POL SCI)**POL SCI 001 THE GOVERNMENT OF THE UNITED STATES****3 Units (Lec 3 Hrs)**
Transfer Credit: CSU, UC (IGETC Area 4), C-ID (POLS 110)

An introduction to United States and California government and politics, including their constitutions, political institutions and processes, and political actors. Examination of political behavior, political issues, and public policy.

POL SCI 002 MODERN WORLD GOVERNMENTS**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (POLS 130)

Students survey several countries around the world and major concepts in comparative politics, focusing on the 'developing world' and questions of globalization, democracy, political and economic development, and major theories and concepts in comparative politics.

POL SCI 005 THE HISTORY OF WESTERN POLITICAL THOUGHT**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B), C-ID (POLS 120)

Examination of various theoretical approaches to politics and of basic political problems and proposed solutions: analysis of selected political theories, relevance of theory to contemporary problems, and new approaches to political thought.

POL SCI 007 CONTEMPORARY WORLD AFFAIRS**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (POLS 140)
Advisory: ENGLISH 028

An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions, and processes as they relate to global issues.

POL SCI 014 GOVERNMENT AND POLITICS IN THE MIDDLE EAST**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4)
Prerequisite: ENGLISH 028

Students survey the domestic, regional, and international factors which shape the political landscape of the Middle East. They identify and explain sources of instability and violence in the region by focusing on the processes of state building and state disintegration. In addition, in a comparative context, they investigate particular experiences of Middle Eastern countries concerning the nature, roots, and historical evolution of the region's regimes, nationalism, leadership, and institutions. The approach is thematic, not chronological.

POL SCI 019 WOMEN IN POLITICS**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU (CSUGE Area D,D), UC (IGETC Area 4)

Students learn political theories and public policies which shape the various possibilities and strategies for women's political participation in the United States and elsewhere. They also examine the political institutions, processes, and problems of the national, state, and local government.

PSYCHOLOGY (PSYCH)**PSYCH 001 GENERAL PSYCHOLOGY I****3 Units (Lec 3 Hrs)**
Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (PSY 110)
Advisory: ENGLISH 028, ENGLISH 067

Students learn the psychological principles behind behaviors such as learning, motivation, intelligence, feelings and emotions, personality, abnormal behavior and methods of adjustment. Different psychological perspectives such as psychoanalysis, neuroscience, cognitive, behaviorism, and humanism will be emphasized.

PSYCH 002 BIOLOGICAL PSYCHOLOGY**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU (CSUGE Area B2), UC (IGETC Area 5B), C-ID (PSY 150)
Prerequisite: PSYCH 001

Students learn to explain psychological behavior as a result and cause of events taking place in the brain, nervous systems,

and genes. Students learn to explain the relationship of biological events to psychopathology, sexuality, motivation, sleep, stress, emotions, perception, and learning.

PSYCH 003 PERSONALITY AND SOCIAL DEVELOPMENT

3 Units (Lec 3 Hrs)
Transfer Credit: CSU
Prerequisite: PSYCH 001

The student focuses on self-awareness and personality development. Topics considered include love, work, loneliness, death and loss, intimate relationships, sex roles and sexuality, and values in life.

PSYCH 013 SOCIAL PSYCHOLOGY

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (PSY 170)
Prerequisite: PSYCH 001

Students will learn how individuals are influenced by our society in the areas of persuasion, propaganda and brain washing, obedience and conformity, aggression and prejudice, sexism, gender roles, group processes, interpersonal relationships, and multiculturalism.

PSYCH 014 ABNORMAL PSYCHOLOGY

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4)
Prerequisite: PSYCH 001

Students learn about abnormal behavior from the perspective of contemporary medical, psychosocial, and socio-cultural approaches. Students analyze abnormal disorders, evaluate their major causes, and identify treatment modalities. Topics will include criteria used for defining abnormal behavior, an overview of the basic psychological perspectives, explanations of DSM standards, and testing and assessment procedures.

PSYCH 041 LIFE-SPAN PSYCHOLOGY: FROM INFANCY TO OLD AGE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area D,E), UC (IGETC Area 4), C-ID (PSY 180)
Prerequisite: PSYCH 001

Students learn about physical, emotional, cognitive and social growth and change affecting individuals across the lifespan. Students follow the development of humans from conception to death, examining theories and research in the fields of personality, social, emotional, and cognitive psychology. This course will also investigate problems of development.

PSYCH 043 PRINCIPLES OF GROUP DYNAMICS I

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area E)

Students learn group dynamics principles including active listening, communication models, body language principles and factors that influence group cohesion.

PSYCH 044 PRINCIPLES OF GROUP DYNAMICS II

3 Units (Lec 3 Hrs)
Transfer Credit: CSU
Prerequisite: PSYCH 043

Students learn the role of group processes in changing behavior, the principal modes of counseling and therapy, principles of verbal and nonverbal communication, and modes of learning.

PSYCH 045 ISSUES IN HUMAN SERVICE CAREERS

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn how to survive in the real world of work in Human Services. This course integrates psychological theory learned in previous classes with practice. The course covers specialized areas of psychology such as crisis intervention, psychopharmacology, counseling ethics, and interviewing. Included are techniques for agency survival such as job interviewing, report writing, and resource referral.

PSYCH 052 PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC, C-ID (PSY 130)

Students learn information about different psychological aspects of sexual expression such as the biochemical factors, childhood experiences, gender influences and societal influences. Topics include attraction, love, marriage, the sexual response cycle, sexual orientation, paraphilias, prostitution, rape, and pornography.

PSYCH 060 STRESS MANAGEMENT

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area E)

Students learn to explain stress as a result of biological, interpersonal, environmental, and everyday life events. Students learn effective stress management techniques.

PSYCH 063 ALCOHOL/DRUG STUDIES: PREVENTION AND EDUCATION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn the strategies of prevention and education necessary to work with various populations dealing with alcohol, drug, and STI (sexually transmitted infection) related problems.

PSYCH 064 INTRODUCTION TO ALCOHOL AND DRUG ABUSE

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Student is introduced to the physiology and psychopharmacology of drugs and alcohol, theories of addiction, historical overview of treatment, drug classification, social policy and drug abuse, and the issues of relapse, rehabilitation, and recovery.

PSYCH 065 CHEMICAL DEPENDENCY: INTERVENTION, TREATMENT AND RECOVERY

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn the processes of treatment and recovery of alcohol and drug abuse among various populations. An overview of the causes, treatment, models, and recovery, relapse, rehabilitation, and aftercare are emphasized.

PSYCH 066 INTRODUCTION TO CRITICAL THINKING

3 Units (Lec 3 Hrs)
Transfer Credit: CSU (CSUGE Area A3)

Students apply cognitive psychology theories and research evidence to enhance the ability to effectively solve problems, make decisions and think creatively. Practice with a variety of problems and simulations take place to ensure these critical thinking skills.

PSYCH 067 COUNSELING TECHNIQUES FOR THE CHEMICALLY ADDICTED**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU

Students learn the environment of chemical dependency counseling and the issues of the paraprofessional in alcohol and drug abuse treatment facilities. Case management in a multi-discipline team will be emphasized. All aspects of modern treatment techniques are covered.

PSYCH 068 BIOPSYCHOLOGY OF CHEMICAL DEPENDENCY: DRUGS, BEHAVIOR & HEALTH**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU

The student receives comprehensive instruction on the pharmacological and behavioral effects of all major categories of both legal and illegal psychoactive substances, including an overview of contemporary and historical drug regulation and abuse, and a detailed review of the nervous system.

PSYCH 074 RESEARCH METHODS IN THE BEHAVIORAL SCIENCES**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (PSY 200)
Prerequisite: PSYCH 001, MATH 227, ENGLISH 101

The student surveys various research methods with an emphasis on research design, experimental procedures, instrumentation, and the collection, analysis, interpretation, and reporting of research data. Research design and methodology will be illustrated through a selected review of research in the field of psychology.

PSYCH 081 FIELD WORK I**3 Units (Lec 1 Hrs / Lab 6 Hrs)****Transfer Credit: CSU**
Corequisite: PSYCH 001, PSYCH 043

The student is introduced to the field of Human Services. Students will achieve basic counseling and communication skills and be able to apply these skills in diverse human services organizations. Students learn the 12 core functions of the human services career, and apply these skills, at a beginning level, in diverse human services organizations. Fieldwork internships at human services organizations are required.

PSYCH 082 FIELD WORK II**3 Units (Lec 1 Hrs / Lab 6 Hrs)****Transfer Credit: CSU****Prerequisite: PSYCH 081**

Students build on the skills they learned in Field Work I by participating, under supervision, at various facilities in the community that offer Human Services. Students will achieve intermediate counseling and communication skills and be able to apply these skills in diverse human service organizations. Students continue to develop their knowledge of the 12 core functions of the human services career, and apply these skills, at an intermediate level, in diverse human services organizations. Fieldwork internships at human services organizations are required.

PSYCH 083 FIELD WORK III**3 Units (Lec 1 Hrs / Lab 6 Hrs)****Transfer Credit: CSU****Prerequisite: PSYCH 082**

Students learn more specialized skills in Human Services. This class is intended for the advanced student of the generalist

option of Human Services. Students build on the skills they learned in Field Work I and Field Work II by participating, under supervision, at various facilities in the community that offer Human Services. Students will achieve advanced counseling and communication skills and be able to apply these skills in diverse human service organizations. Students continue to develop their knowledge of the 12 core functions of the human services career, and apply these skills, at an advanced level, in diverse human services organizations. Fieldwork internships at human services organizations are required.

PSYCH 084 FIELDWORK I, ADDICTION STUDIES**3 Units (Lec 1 Hrs / Lab 6 Hrs)****Transfer Credit: CSU****Corequisite: PSYCH 001, PSYCH 043**

The student is introduced to the field of Drug and Alcohol Studies. Students will achieve basic counseling and communication skills and be able to apply these skills in diverse drug and alcohol treatment programs. Students learn the 12 core functions of the human services career, and apply these skills, at a beginning level, in diverse drug and alcohol treatment programs. Fieldwork internships at drug and alcohol treatment programs are required.

PSYCH 085 FIELDWORK II, DRUG/ALCOHOL**3 Units (Lec 1 Hrs / Lab 6 Hrs)****Transfer Credit: CSU****Prerequisite: PSYCH 084**

Students build on the skills they learned in Field Work I by participating, under supervision, at various facilities in the community that offer Drug and Alcohol Treatment programs. Students will achieve intermediate counseling and communication skills and be able to apply these skills in diverse drug and alcohol treatment settings. Students continue to develop their knowledge of the 12 core functions of drug and alcohol treatment, and apply these skills, at an intermediate level, in drug and alcohol treatment programs. Fieldwork internships at drug and alcohol treatment programs are required.

PSYCH 086 FIELDWORK III, DRUG/ALCOHOL**3 Units (Lec 1 Hrs / Lab 6 Hrs)****Transfer Credit: CSU****Prerequisite: PSYCH 085**

Students learn more specialized skills in Human Services. This class is intended for the advanced student of the Drug/Alcohol option of Human Services. Students build on the skills they learned in Field Work I and Field Work II by participating, under supervision, at various facilities in the community that offer Drug and Alcohol treatment programs. Students will achieve advanced counseling and communication skills and be able to apply these skills in diverse drug and alcohol treatment programs. Students continue to develop their knowledge of the 12 core functions of the human services career, and apply these skills, at an advanced level, in diverse drug and alcohol treatment programs. Fieldwork internships at drug and alcohol treatment programs are required.

PSYCH 385 DIRECTED STUDY - PSYCHOLOGY**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

This course allows students to pursue directed study in Psychology on a contract basis under the direction of a supervising instructor.

PUBLIC RELATIONS (PUB REL)

PUB REL 001 PRINCIPLES OF PUBLIC RELATIONS

Units (Lec 3 Hrs)
Transfer Credit: CSU

This course introduces public relations as the values-driven management of relationships with groups of people that can influence an organization's success and examines how organizations can ethically and systematically build productive, mutually beneficial relationships with such groups.

RADIOLOGIC TECHNOLOGY (RAD TEC)

RAD TEC 103 RADIOGRAPHIC ANATOMY AND POSITIONING SKELETAL SYSTEM

Units (Lec 3 Hrs / Lab 2 Hrs)
Transfer Credit: CSU

Students learn radiographic anatomy, positioning, and selected pathology of the musculoskeletal system. Laboratory experience is included.

RAD TEC 104 RADIOGRAPHIC ANATOMY/POSITIONING CRANIUM & VISCERAL ORGANS

4 Units (Lec 3 Hrs / Lab 2 Hrs)
Transfer Credit: CSU

Students learn radiographic anatomy, positioning, and selected pathology of the visceral organs and cranium. Laboratory experience is included.

RAD TEC 200 INTRODUCTION TO RADIOLOGIC TECHNOLOGY

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn the history of radiography, organization of the hospital, the medical practitioners who work in medical facilities, and careers in the radiological sciences.

RAD TEC 201 MEDICAL TERMINOLOGY FOR RADIOLOGIC

Units (Lec 3 Hrs)
Transfer Credit: CSU

Students learn the origins of medical terminology, word-building systems, abbreviations, symbols, diagnostic, and therapeutic terms. Students review simulated patient charts in order to understand radiographic orders and diagnostic report interpretation.

RAD TEC 202 INTRODUCTION TO ELECTROMAGNETIC RADIATION IMAGE RECORDING AND PROCESSING

Units (Lec 3 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: ENGLISH 028, ENGLISH 067, MATH 115, RAD TEC 200, RAD TEC 201

Students learn atomic structure, characteristics of radiation, x-ray production, radiation protection, and photon interaction with matter.

RAD TEC 203 INTRODUCTION TO DIGITAL RADIOGRAPHY & RADIOGRAPHIC ANATOMY

4 Units (Lec 2 Hrs / Lab 4 Hrs)
Transfer Credit: CSU

Students learn the nature of the digital radiography, how to create the latent image, qualities of the digital radiography, radiographic technique, radiographic anatomy, positioning, and selected pathology of the musculoskeletal system. The course is a pass or no pass grading method with the passing standard at 85% or higher. Laboratory experience is included.

RAD TEC 205 FUNDAMENTALS OF X-RAY PHYSICS

4 Units (Lec 3 Hrs / Lab 2 Hrs)
Transfer Credit: CSU

Prerequisite: RAD TEC 202

Students learn the physical principles of x-ray generation, electrostatics, electromagnetism, electrodynamics, electrical circuitry of radiographic equipment, interactions of x-ray radiation, and matter.

RAD TEC 206 RADIOGRAPHIC EXPOSURE

4 Units (Lec 3 Hrs / Lab 2 Hrs)
Transfer Credit: CSU

Prerequisite: RAD TEC 205

Students learn the factors that affect radiographic exposure and the basic principles and components of digital imaging. Laboratory experience is provided including computer applications in diagnostic medical imaging.

RAD TEC 207 PATIENT CARE AND MANAGEMENT

4 Units (Lec 3 Hrs / Lab 2 Hrs)
Transfer Credit: CSU

Prerequisite: RAD TEC 202

Students learn the principles of patient care management for radiographers. Routine and emergency care procedures are discussed. The role of the radiographer in patient education will also be explained. Laboratory experience is included.

RAD TEC 208 CROSS SECTIONAL ANATOMY AND PATHOLOGY

3 Units (Lec 3 Hrs)
Transfer Credit: CSU

Prerequisite: RAD TEC 201

Students learn to identify normal anatomy through a variety of imaging formats. Students learn how to identify normal and pathologic organ structures.

RAD TEC 209 PHARMACOLOGY AND VENIPUNCTURE WITH BASIC LIFE SUPPORT (BLS)

3 Units (Lec 1 Hrs / Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: RAD TEC 207

Students learn the concepts of pharmacology, venipuncture, contrast administration, and intravenous medications used in the treatment of adverse effects from contrast agents.

RAD TEC 210 QUALITY MANAGEMENT

3 Units (Lec 1 Hrs / Lab 4 Hrs)

Transfer Credit: CSU

Prerequisite: RAD TEC 202

Students learn the responsibilities of quality management which entails performing quality control tests, assessing film density, monitoring accuracy, and identifying and solving issues associated with producing medical images.

RAD TEC 211 COMPUTER TOMOGRAPHY**Units (Lec 3 Hrs)****Transfer Credit: CSU****Prerequisite: RAD TEC 205**

Students learn the principles and operation of CT instrumentation, procedures, ancillary devices, and radiation protection.

RAD TEC 240 RADIATION PROTECTION AND BIOLOGY**Units (Lec 3 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: RAD TEC 202**

Students learn the principles of radiation protection and federal and state laws pertaining to radiography.

RAD TEC 243 PRINCIPLES AND PRACTICES OF FLUOROSCOPY**Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students learn the factors that influence patient and operator radiation dose during fluoroscopic procedures, fluoroscopic equipment, components, and ancillary equipment.

RAD TEC 260 INTRODUCTION TO CLINICAL EDUCATION**Units (Lec 1 Hrs / Lab 9 Hrs)****Transfer Credit: CSU****Prerequisite: RAD TEC 103**

Students are oriented to the hospital environment which includes the reception area, surgery, general radiography, emergency room, and diagnostic imaging areas. Student interns are assigned 16 hours per week in a Clinical Education Center.

RAD TEC 280 CLINICAL EDUCATION IN RADIOLOGIC TECHNOLOGY I**6 Units (Lab 18 Hrs)****Transfer Credit: CSU****Prerequisite: RAD TEC 260**

Students apply radiographic theory in their clinical training site under direct supervision of qualified clinical personnel and college instructors. Emphasis is on completing the 58 imaging competencies that include: chest, upper and lower extremities and abdominal imaging. The LACC Clinical Coordinator will serve as a resource for hospital-based preceptor experience.

RAD TEC 281 CLINICAL EDUCATION IN RADIOLOGIC TECHNOLOGY II**12 Units (Lab 36 Hrs)****Transfer Credit: CSU****Prerequisite: RAD TEC 280**

Students apply radiographic theory in their clinical training site under direct supervision of qualified clinical personnel and college instructors. Emphasis is on completing the 58 imaging competencies that include: abdominal, thoracic viscera, spine, common contrast exams, and generalized skull radiography. The LACC Clinical Coordinator will serve as a resource for hospital-based preceptor experience.

RAD TEC 282 CLINICAL EDUCATION IN RADIOLOGIC TECHNOLOGY III**4 Units (Lab 12 Hrs)****Transfer Credit: CSU****Prerequisite: RAD TEC 281**

Students apply radiographic theory in their clinical training site under direct supervision of qualified clinical personnel and college instructors. Emphasis is on completing the 58 imaging competencies that include basic vascular procedures

(angiograms), PICC and tunnel catheter line placement, pace-makers, lithotripsy, tube placement, myelograms, arthrograms, hysterosalpingograms, E.R.C.P., sialogram, retrograde, and advanced procedures. The LACC Clinical Coordinator will serve as a resource for hospital-based preceptor experience.

RAD TEC 283 CLINICAL EDUCATION IN RADIOLOGIC TECHNOLOGY IV**12 Units (Lab 36 Hrs)****Transfer Credit: CSU****Prerequisite: RAD TEC 282**

Students apply radiographic theory in their clinical training site under direct supervision of qualified clinical personnel and college instructors. Emphasis is on completing the 58 imaging competencies that include: other imaging modalities, therapeutic applications of radiation, tomosynthesis, mammograms, bone density, magnetic resonance imaging, computed tomography, nuclear medicine, ultrasound, and radiation therapy. The LACC Clinical Coordinator will serve as a resource for hospital-based preceptor experience.

REAL ESTATE (REAL ES)**REAL ES 001 REAL ESTATE PRINCIPLES****3 Units (Lec 3 Hrs)****Transfer Credit: CSU****Advisory: ENGLISH 028, ENGLISH 067**

Students study the principles, economic aspects, and laws of real estate, including the information needed to obtain a real estate sales/brokers license and/or for better management of personal real estate investments. Topics include legal descriptions and estates, encumbrances, agencies, contracts, financing, appraisal, escrow and title, leases, urban economics, taxation, and vocational careers.

REAL ES 003 REAL ESTATE PRACTICES**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students solve the problems of establishing and conducting a real estate business, including establishing the office, securing listing and prospects, showing properties and closing sales, ethics and professional relationships, rentals and leases, appraising, and the California Real Estate Act. Preparation of documents used in real estate transactions, property transfers, and exchanges is included.

REAL ES 005 LEGAL ASPECTS OF REAL ESTATE I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students who plan to take the state examination, which is required in order to obtain a broker license (meets optional requirements for sales license), can receive the appropriate legal background, including principles of property ownership and management in their business aspects, with special reference to law of California as it applies to community property, deeds, trust deeds, mortgages, leases, brokerage, mechanic's liens, homesteads, wills, and estates.

REAL ES 006 LEGAL ASPECTS OF REAL ESTATE II**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU

The student learns advanced issues involving real estate legal matters. Including an advanced and in-depth study of agency and sub-agency law, civil rights and fair housing in real estate practice, and real estate escrow and title insurance laws. Also included are the introductory studies of wills, trusts, and probate administration as they apply to real estate brokers' practice.

REAL ES 007 REAL ESTATE FINANCE I**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU

Students study the forms, and sources of financing real property, including purchase, construction, refinance, and other creative permanent financing approaches. Also included is an assessment of the procedures for obtaining government-sponsored financing through FHA, DVA, and Cal-Vet. The various loan sources currently being used in the marketplace will be evaluated including banks, savings and loans, insurance companies, mortgage brokers/bankers, pensions, credit unions, and private parties.

REAL ES 009 REAL ESTATE APPRAISAL I**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU

The student learns the purpose of appraisals, the appraisal process, and the different approaches of valuation. Additionally, the student learns methods and techniques used to determine the value of various types of properties. The market comparison and cost approaches are emphasized, plus an introduction to investment property valuation by the income approach.

REAL ES 011 ESCROW PRINCIPLES**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU

Students study real estate escrow responsibilities, procedures, and management, such as preparing escrow instructions, loan documentation, and closing statements. Topics covered in this course also include the basics of escrow accounting, financing procedures for real property, and title transfer and title insurance procedures.

REAL ES 014 PROPERTY MANAGEMENT**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU**Advisory: ENGLISH 028, ENGLISH 067**

Students study the nature and types of property management, leases and contracts, rent scheduling, selling of space and techniques of renting, tenant selection and supervision, relations with owners and budgets, purchasing and accounts, reporting, ethics, and legal and professional relationships.

REAL ES 018 REAL ESTATE INVESTMENTS I**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU**Advisory: ENGLISH 028, ENGLISH 067**

Students study the principles of real estate investment with respect to identifying and understanding the language, basic procedures, financing, and facts essential to ownership, conveyance, environment problems, business organization involvement, and evaluation with other investments. A comparison and assessment of commercial, industrial, and residential

projects, including location, feasibility studies, zoning restrictions, financing options, sale and leaseback, and preferential tax benefits

REAL ES 021 REAL ESTATE ECONOMICS**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU**Advisory: ENGLISH 028, ENGLISH 067**

The student learns fundamentals of economic trends and factors which affect the real estate market. Topics include urban structural relationships, real estate market analysis, supply and demand, economic forecasting, land use theory, and problems of sub-division. Additionally, the student learns the government's role in the economy and its influence upon the real estate market including the federal reserve system, taxation and land use controls including zoning, planning, and fair housing legislation.

REAL ES 060 REAL ESTATE MATHEMATICS**3 Units (Lec 3 Hrs)**
Transfer Credit: CSU

This course begins with a review of basic math skills, reinforces what is already known, and then covers quantitative fundamentals that prepares students to apply real estate terminology and specific formulas to problems and tasks common in the real estate industry such as area and volume calculation, the rectangular survey system, the metes and bounds system, proration, commission rates, and property values. This course will help students develop the skills to complete a review of settlement costs and explain this information to clients. Students will be prepared for real estate mathematics problems which are most common in actual practice, necessary for other real estate courses, and for those found in the California Real Estate Licensing examinations.

NURSING, REGISTERED (REGNRSG)**REGNRSG 103 NURSING PHARMACOLOGY****Units (Lec 1 Hrs)**
Transfer Credit: CSU
Corequisite: REGNRSG 104

First semester nursing students acquire introductory knowledge about the most frequently prescribed medications, their side effects, and possible interactions that are used in health care settings today.

REGNRSG 104 NURSING FOUNDATIONS - THEORY**Units (Lec 2 Hrs)**
Transfer Credit: CSU
Corequisite: REGNRSG 104L

Students acquire introductory knowledge about theoretical concepts in nursing that are required for safe patient care. Students also learn and apply the Roy Adaptation Model nursing process as the conceptual framework for practice.

REGNRSG 104L NURSING FOUNDATIONS - CLINICAL**2.5 Units (Lab 7.5 Hrs)**
Transfer Credit: CSU
Corequisite: REGNRSG 104

Students apply theoretical concepts from REGNRSG 104 during concurrent clinical experience.

REGNRSG 105 BEGINNING MEDICAL/SURGICAL - THEORY

2 Units (Lec 2 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 104

Corequisite: REGNRSG 105L

Students will develop introductory knowledge and understanding of common medical-surgical health problems, using knowledge about the Roy Adaptation Model nursing process. This framework will be used for implementing nursing care.

REGNRSG 105L BEGINNING MEDICAL/SURGICAL - CLINICAL

2.5 Units (Lab 7.5 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 104

Corequisite: REGNRSG 105

Theoretical concepts and nursing skills from REGNRSG 105 will be applied by the students in a clinical setting.

REGNRSG 106 NURSING CARE OF THE CHILDBEARING FAMILY - THEORY

2 Units (Lec 2 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 105

Corequisite: REGNRSG 106L

Students learn to assess and care for women through the lifespan and newborns, with emphasis on reproductive health and the childbearing years, healthy neonates, and women's health. Utilizing the Roy Adaptation model, the nursing process, and QSEN competencies, family-centered care is emphasized, including identification of the bio-psycho-social needs, as well as cultural diversity of patients and families.

REGNRSG 106L NURSING CARE OF THE CHILDBEARING FAMILY - CLINICAL

2 Units (Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 105

Corequisite: REGNRSG 106

Students will apply concepts from REGNRSG 106 that include the disease process, medical treatments, nursing responsibilities, and interventions, cultural, ethical, and legal issues to the childbearing family.

REGNRSG 107 NURSING CARE OF THE PEDIATRIC CLIENT - THEORY

2 Units (RPT 1) (Lec 2 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 105

Corequisite: REGNRSG 107L

Utilizing the Roy Adaptation Model and the nursing process, students in pediatric nursing focus on the nursing care of children of various ages and their families. The student applies concepts that include disease process, medical treatments, nursing responsibilities, interventions, cultural, ethical, and legal issues to the pediatric population.

REGNRSG 107L NURSING CARE OF THE PEDIATRIC CLIENT - CLINICAL

2 Units (Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 105

Corequisite: REGNRSG 107

The student applies concepts from REGNRSG 107 that include disease process, medical treatments, nursing responsibilities, interventions, cultural, ethical, and legal issues to the pediatric population.

REGNRSG 108 NURSING CARE FOR THE CLIENT WITH PSYCHOSOCIAL NEEDS - THEORY

2 Units (Lec 2 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 106, REGNRSG 107

Corequisite: REGNRSG 108L

The student receives correlated theoretical knowledge and clinical experience in the care of the psychiatric patient in the acute care facility. Emphasis will be on the holistic care of clients with mental health problems, cognitive disorders, and/or difficulties in coping with problems of daily living.

REGNRSG 108L NURSING CARE FOR THE CLIENT WITH PSYCHOSOCIAL NEEDS - CLINICAL

2 Units (Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 106, REGNRSG 107

Corequisite: REGNRSG 108

Students apply theoretical concepts from REGNRSG 108 during the concurrent clinical experience of the psychiatric patient in the acute care facility. Emphasis will be on the holistic care of clients with mental health problems, cognitive disorders, and/or difficulties in coping with problems of daily living.

REGNRSG 109 INTERMEDIATE MEDICAL/SURGICAL NURSING - THEORY

2.5 Units (Lec 2.5 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 106, REGNRSG 107

Corequisite: REGNRSG 109L

Students identify and manage the needs of the older adult client possessing complex medical-surgical health problems. Students focus on the bio-psycho-social impact of illness across the life span and nursing interventions to promote client adaptation.

REGNRSG 109L INTERMEDIATE MEDICAL/SURGICAL NURSING - CLINICAL

2.5 Units (Lab 7.5 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 106, REGNRSG 107

Corequisite: REGNRSG 109

Students apply theoretical concepts from REGNRSG 109 during concurrent clinical experience.

REGNRSG 110 ADVANCED MEDICAL/SURGICAL NURSING - THEORY

2.5 Units (Lec 2.5 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 108, REGNRSG 109

Corequisite: REGNRSG 110L

In this advanced nursing course, students will learn to understand and apply advanced theoretical concepts in the care of critically ill adult, older adult, and pediatric medical-surgical patients with complex problems. Student acquires translational knowledge about complex concepts that include ECG

monitoring, beginning ventilator management, hemodynamic monitoring, care of the client with multisystem failure, and nursing care in emergency situations.

REGNRSG 110L ADVANCED MEDICAL SURGICAL NURSING - CLINICAL

2.5 Units (Lab 7.5 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 108, REGNRSG 109

Corequisite: REGNRSG 110

Students apply theoretical concepts from REGNRSG 110 during concurrent clinical experience.

REGNRSG 111 NURSING LEADERSHIP AND MANAGEMENT - THEORY

2 Units (Lec 2 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 110

Corequisite: REGNRSG 111L

Nursing students will explore, apply the legal, ethical, and current issues and trends that affect the registered nurse today within the context of the roles of practice.

REGNRSG 111L NURSING LEADERSHIP AND MANAGEMENT - CLINICAL

2 Units (Lab 6 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 110

Corequisite: REGNRSG 111

Students apply theoretical concepts from REGNRSG 111 during concurrent clinical experience.

REGNRSG 115 NURSING SKILLS COMPETENCY I

1 Units (Lab 3 Hrs)

Transfer Credit: CSU

Corequisite: REGNRSG 104

In this course, students will focus on the skills and knowledge needed to assess and care for a patient in the clinical setting. Emphasis will be placed on the nursing process, therapeutic communication, and providing basic care to the individual.

REGNRSG 116 NURSING SKILLS COMPETENCY II

1 Units (Lab 3 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 105

The student participates in this laboratory course to practice procedures and skills learned in Maternal/Newborn and Pediatrics Nursing theory and clinical courses.

REGNRSG 117 NURSING SKILLS COMPETENCY III

1 Units (Lab 3 Hrs)

Transfer Credit: CSU

Prerequisite: REGNRSG 107

Third semester nursing students practice and enhance, both their mental health skills and medical-surgical nursing skills.

RUSSIAN (RUSSIAN)

RUSSIAN 001 ELEMENTARY RUSSIAN I

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC

Elementary course for student without prior exposure to Russian. Develops speaking, writing, listening, and reading skills in Russian at the ACTFL Proficiency Novice-Mid Level, and introduces Russian culture.

RUSSIAN 002 ELEMENTARY RUSSIAN II

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A)

Prerequisite: RUSSIAN 001

Continues the development of elementary speaking, writing, listening, and reading skills in Russian at the ACTFL Proficiency Novice-High Level, and furthers understanding of Russian culture.

RUSSIAN 003 INTERMEDIATE RUSSIAN I

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)

Prerequisite: RUSSIAN 002

Development of intermediate Russian in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-Mid Level, and practice interpreting Russian culture.

RUSSIAN 004 INTERMEDIATE RUSSIAN II

5 Units (Lec 5 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)

Prerequisite: RUSSIAN 003

Continues the development of intermediate Russian in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-High Level and utilizes knowledge of Russian culture

RUSSIAN 007 CONVERSATIONAL RUSSIAN

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Prerequisite: RUSSIAN 002

Students will develop practical speaking and listening skills in Russian at the ACTFL Proficiency Intermediate-Low Level, and utilize culture in spoken communication.

RUSSIAN 008 CONVERSATIONAL RUSSIAN

Units (Lec 2 Hrs)

Transfer Credit: CSU, UC

Prerequisite: RUSSIAN 002

Students develop and practice conversational skills in Russian pertaining to typical situations and topics a person may encounter when traveling or living among a Russian-speaking community.

RUSSIAN 010 RUSSIAN CIVILIZATION

Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)

Open to all students. Course taught in English. Focuses on the history, culture, traditions, and arts of Russia and its people. The contribution of Russia to world civilization is examined.

SOCIOLOGY (SOC)

SOC 001 INTRODUCTION TO SOCIOLOGY

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (SOCI 110)

Advisory: ENGLISH 028

Students learn the major principles of sociology as they are applied to contemporary social issues. With the use of several theoretical perspectives, the course examines social structures within American society and other cultures from macro and micro perspectives. There are extensive references to contemporary research findings on social structure, group dynamics, social stratification, and social institutions.

SOC 002 AMERICAN SOCIAL PROBLEMS**3 Units (Lec 3 Hrs)****Transfer Credit:** CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (SOCI 115)
Advisory: ENGLISH 028, ENGLISH 067

The student applies sociological perspectives and concepts in analyzing contemporary social problems in the United States. Topics include problems associated with drug abuse; poverty; racial, ethnic, and gender inequality; crime and violence; and the environment.

SOC 011 RACE AND ETHNIC RELATIONS**3 Units (Lec 3 Hrs)****Transfer Credit:** CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (SOCI 150)

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.

SOC 012 MARRIAGE AND FAMILY LIFE**3 Units (Lec 3 Hrs)****Transfer Credit:** CSU (CSUGE Area E), UC (IGETC Area 4), C-ID (SOCI 130)

Sociological analysis of family as an institution, including historical and recent changes, present nature and the socio-cultural and economic forces shaping these changes.

SOC 022 SOCIOLOGY OF WOMEN**3 Units (Lec 3 Hrs)****Transfer Credit:** CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (SJS 120)

Students learn the origins, purpose, subject matter, and methods of Women's Studies and to feminist perspectives on a range of social issues affecting women of diverse backgrounds. Study of gender and its intersections with race, class, sexuality, dis/ability, age, religion, and other systems of difference.

SOC 031 SOCIOLOGY OF GENDER**3 Units (Lec 3 Hrs)****Transfer Credit:** CSU (CSUGE Area D), UC (IGETC Area 4), C-ID (SOCI 140)

Sociological analysis of the social construction of gender, masculinity, and femininity historically and cross-culturally. It examines the debates on sex and gender. It analyzes the impact of economic and political change on gender expectations and practices. It focuses on macro-analyses of how institutions shape gender and microanalyses of how individuals are socialized and how they do and practice gender.

SOC 032 INTRODUCTION TO CRIMINOLOGY**3 Units (Lec 3 Hrs)****Transfer Credit:** CSU (CSUGE Area D), UC (IGETC Area 4)

Sociological analysis of crime, criminal behavior, and the criminal justice system. Explores the history and social construction of crime and criminality and examines the definition of crime and its violations as well as the laws and methods used to control criminal behavior. There is an extensive review of the major sociological explanations on the causes of crime and criminality in addition to a consideration of the biological and psychological perspectives. Discusses measurement of crime and basic theoretical explanations of criminal behavior.

SPANISH (SPANISH)**SPANISH 001 ELEMENTARY SPANISH I****5 Units (Lec 5 Hrs)****Transfer Credit:** CSU (CSUGE Area C2), UC, C-ID (SPAN 100)

Elementary course for student without prior exposure to Spanish. Develops speaking, writing, listening, and reading skills in Spanish at the ACTFL Proficiency Novice-Mid Level, and introduces Spanish/Latin American culture.

SPANISH 002 ELEMENTARY SPANISH II**5 Units (Lec 5 Hrs)****Transfer Credit:** CSU (CSUGE Area C2), UC (IGETC Area 6A), C-ID (SPAN 110)**Prerequisite:** SPANISH 001

Continues the development of elementary speaking, writing, listening, and reading skills in Spanish at the ACTFL Proficiency Novice-High Level, and furthers understanding of Spanish/Latin American culture.

SPANISH 003 INTERMEDIATE SPANISH I**5 Units (Lec 5 Hrs)****Transfer Credit:** CSU (CSUGE Area C2), UC (IGETC Area 3B,6A), C-ID (SPAN 200)**Prerequisite:** SPANISH 002

Development of intermediate Spanish in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-Mid Level, and practice interpreting Spanish/Latin American culture.

SPANISH 004 INTERMEDIATE SPANISH II**5 Units (Lec 5 Hrs)****Transfer Credit:** CSU (CSUGE Area C2), UC (IGETC Area 3B,6A), C-ID (SPAN 210)**Prerequisite:** SPANISH 003

Continues the development of intermediate Spanish in speaking, writing, listening, and reading skills at the ACTFL Proficiency Intermediate-High Level and utilization of knowledge of Spanish/Latin American culture.

SPANISH 006 ADVANCED SPANISH THROUGH SPANISH LITERATURE**5 Units (Lec 5 Hrs)****Transfer Credit:** CSU (CSUGE Area C2), UC (IGETC Area 3B,6A)**Prerequisite:** SPANISH 005

The student studies the theater as a literary and performing art, and the essay as a nonfictional form of expression. Through lectures and readings, students will learn about the trajectory of the theater and the essay in Spanish and Latin-American literary traditions. Discussions generated by lectures and reading provide for oral practice in the target language. Written expression and review of grammatical structures, orthography, and punctuation is done through essays on selected themes

SPANISH 007 CONVERSATIONAL SPANISH**3 Units (Lec 3 Hrs)****Transfer Credit:** CSU**Prerequisite:** SPANISH 002

Develops practical speaking and listening skills in Spanish at the ACTFL Proficiency Intermediate-Low Level, and utilizes culture in spoken communication.

SPANISH 009 CIVILIZATION OF SPAIN**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)**

Open to all students. Course taught in English. Focuses on the history, culture, traditions, and arts of Spain and its people. The contribution of Spain to world civilization is examined.

SPANISH 010 LATIN-AMERICAN CIVILIZATION**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 3B)**

Open to all students. Course taught in English. Focuses on the history, culture, traditions, and arts of Latin America and its people. The contribution of Latin America to world civilization is examined.

SPANISH 011 GREAT BOOKS OF SPANISH LITERATURE**3 Units (RPT 1) (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC**

Students are introduced to selections from masterpieces of Spanish Literature. Class is conducted in Spanish.

SPANISH 015 GREAT BOOKS OF LATIN AMERICAN LITERATURE**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC**

Students explore the major authors and works of Latin American literature from the Pre-Columbian times to the 20th Century. Students will analyze the literary history of Latin America, examining the literary genres, themes, and movements in cultural, social, and historical context. Class is conducted in Spanish and readings are in Spanish.

SPANISH 021 FUNDAMENTALS OF SPANISH I**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC**

Fundamental course for students without prior exposure to Spanish. Develops speaking, writing, listening, and reading skills in Spanish at the ACTFL Proficiency Novice-Low Level, and raises awareness about Spanish culture. SPANISH 021 and SPANISH 022 together are equivalent to SPANISH 001. Both SPANISH 021 and SPANISH 022 must be taken for UC:CSU credit.

SPANISH 022 FUNDAMENTALS OF SPANISH II**3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC****Prerequisite: SPANISH 021**

Continues the development of fundamental speaking, writing, listening, and reading skills in Spanish at the ACTFL Proficiency Novice-Mid Level, and introduces Spanish/Latin American culture. SPANISH 021 and SPANISH 022 together are equivalent to SPANISH 001. Both SPANISH 021 and SPANISH 022 must be taken for UC:CSU credit.

SPANISH 035 SPANISH FOR SPANISH SPEAKERS I**5 Units (Lec 5 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A),****C-ID (SPAN 220)**

Elementary course for bilingual students. Class is conducted in Spanish. Students develop speaking, writing, listening, and reading skills in Spanish at the ACTFL Proficiency Novice-High Level, and are introduced to Spanish culture. Credit is given for either SPANISH 002 or SPANISH 035, but not for both.

SPANISH 036 SPANISH FOR SPANISH SPEAKERS II**5 Units (Lec 5 Hrs)****Transfer Credit: CSU (CSUGE Area C2), UC (IGETC Area 6A),****C-ID (SPAN 230)****Prerequisite: SPANISH 035**

Continues the development of elementary speaking, writing, listening, and reading skills in Spanish for bilingual students at the ACTFL Proficiency Intermediate-Mid Level, and furthers understanding of Spanish culture. Class is conducted in Spanish. Credit is given for either SPANISH 003 or SPANISH 036, but not for both.

SUPERVISION (SUPV)**SUPV 001 ELEMENTS OF SUPERVISION****3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

This introductory course covers the theory and principles of supervision, as well as the supervisor's responsibilities for organization, human relations, training, rating, quality-quantity control, and management-employee relations.

SUPV 012 WRITTEN COMMUNICATIONS FOR SUPERVISORS**3 Units (Lec 3 Hrs)**

Students learn to improve their writing ability and write professional email messages, memorandums, and a wide range of business letters, including direct requests for information, replies to information requests, direct claims, adjustment letters, letters of recommendation, persuasive requests, refusing routine requests, and breaking bad news to customers and to employees. This course is one in a series that applies to the college's certificates in Business Administration, Marketing, and Management, and the Western Association of Food Chains' Marketing Management Certificate.

TELEVISION (T V)**T V 001 INTRODUCTION TO TELEVISION****3 Units (Lec 3 Hrs)****Transfer Credit: CSU, UC**

This course is required of all Television majors. Students learn what is on television and other electronic media, the history of radio and television broadcasting, costs, ratings, profits, the FCC rules, and cable and pay television. This course is a recommended elective for Journalism, Theater, and Public Relations students.

T V 004 TELEVISION CAMERA LIGHTING AND SOUND**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students learn the basic techniques, aesthetic conventions, and practical use of lighting and sound equipment in a multi-camera television production environment.

T V 006 STUDIO AND REMOTE PRODUCTION**3 Units (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU****Prerequisite: T V 046****Advisory: CINEMA 002**

Students light and shoot remote setups then edit those pieces for inclusion into a half hour live to tape production in the studio.

T V 007 TELEVISION ANNOUNCING I**3 Units (RPT 1) (Lec 2 Hrs / Lab 3 Hrs)****Transfer Credit: CSU**

Students produce news packages and interviews and perform the role of reporter as part of training in Television announcing for broadcast news, sports, weather, and entertainment. They participate as on-camera talent and writers for the production of a half hour in-studio live-to-tape production of a local news broadcast.

T V 009 TV EQUIPMENT**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students learn the principles and operation of a multi-camera television control room and studio equipment, leading to the production of their own live-switched one-minute public service announcement. Sound control, studio lighting, control room procedures, camera operation, directing, script writing, storyboarding, and production design are emphasized.

T V 025-1 TELEVISION AND FILM DRAMATIC WRITING I**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

Students learn professional methods and techniques for creating characters and stories to develop into film and TV scripts, including drama and comedy, in both the single- and multi-camera formats. Class also deals with getting an agent and how scripts are sold.

T V 025-2 TELEVISION AND FILM DRAMATIC WRITING II**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 005 or T V 025-1**

Students learn professional methods and techniques of advanced television and film writing for drama and comedy, for single- and multiple-camera formats. Scripts begun in T V 025-1 may be worked on for completion and/or revision.

T V 046 TELEVISION PRODUCTION**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: T V 009 or T V 004**

Students write, produce, and direct a series of live-switched video productions. Each student functions as talent or crew in productions produced by classmates. Production protocol learned will include operation of studio cameras; lighting instruments and control; and operation of control room equipment including switcher, audio mixer, video recording, and character generator, as well as directing, writing, and producing.

T V 048 TELEVISION PROGRAMMING & VIDEOTAPE PRODUCTION WORKSHOP**3 Units (RPT 1) (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: T V 046**

Advanced production course that focuses on above the line production responsibilities for live-to-tape multi-camera television productions. Positions for this course include producer, director, writer, segment producer, assistant director, and talent. T V 048 and T V 049 meet together at the same time; students cannot take both classes in the same semester.

T V 049 TV PRODUCTION WORKSHOP**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU****Prerequisite: T V 046**

This advanced television production course focuses on below-the-line production responsibilities for live-to-tape multi-camera television productions. Production positions for this course include camera operator, lighting director, set designer, graphics, audio engineer, technical director, floor director, field shooter, and segment editor. There is no producing or directing in this course. T V 048 and T V 049 meet together at the same time; students cannot take both classes in the same semester.

T V 055 DIGITAL VIDEO PRODUCTION WORKSHOP I**3 Units (Lec 1 Hrs / Lab 4 Hrs)****Transfer Credit: CSU****Prerequisite: CINEMA 001, CINEMA 002, T V 004, T V 009**

Intermediate cinema and television students produce short video projects using digital video cameras and editing systems.

T V 185 DIRECTED STUDY - TELEVISION**1 Units (Lec 1 Hrs)****Transfer Credit: CSU****Prerequisite: T V 046**

Create a writing, mentoring, or post-production study project as agreed upon by the student and a supervising instructor. The time and depth of the project will align with earning 1 unit of credit.

THEATER (THEATER)**THEATER 100 INTRODUCTION TO THE THEATER****3 Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3B), C-ID (THTR 111)****Advisory: ENGLISH 101**

A survey study and analysis of the various elements that make up the institution called the Theater. Subjects range from origins of primitive drama to contemporary structure and direction of our modern theater.

THEATER 105-1 THEATER SURVEY I- LITERATURE**1 Units (Lec 1 Hrs)****Transfer Credit: CSU**

The student learns about theater literature through an introduction and survey or observation of regularly scheduled programs consisting of acting scenes and exercises from the various theater classes. The basic program is augmented by the appearance of guest artists and theater groups. Students are required

to attend live events outside campus and report on their observations of theater literature through journal and essay writing assignments.

THEATER 105-2 THEATER SURVEY II- PERFORMANCE

1 Units (Lec 1 Hrs)
Transfer Credit: CSU

The student learns theater performance through the survey and observation of regularly scheduled programs consisting of acting scenes and exercises from various theater classes. The basic program is augmented by the appearance of guest artists and theater groups. Students are required to attend live events outside campus and report on their observations of acting performance through journal and essay writing assignments.

**THEATER 105-3 THEATER SURVEY III-
DESIGN TECHNOLOGY**

1 Units (Lec 1 Hrs)
Transfer Credit: CSU

The student learns theater design technology through the survey and observation of regularly scheduled programs consisting of acting scenes and exercises from various theater classes. The basic program is augmented by the appearance of guest artists and theater groups. Students are required to attend live events outside campus and report on their observations of acting performance through journal and essay writing assignments.

**THEATER 105-4 THEATER SURVEY IV-
AUDIENCE EXPERIENCE**

1 Units (Lec 1 Hrs)
Transfer Credit: CSU

The student learns theater audience experience through the survey and observation of regularly scheduled programs consisting of acting scenes and exercises from various theater classes. The basic program is augmented by the appearance of guest artists and theater groups. Students are required to attend live events outside campus and report on their observations of acting performance through journal and essay writing assignments.

THEATER 110 HISTORY OF THE WORLD THEATER

3 Units (Lec 3 Hrs)
**Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3B),
C-ID (THTR 113)**
Advisory: ENGLISH 101

Students read, discuss, and analyze major works of dramatic literature from the Golden Age of Greece through contemporary. They develop an understanding and appreciation of the dramatic form, story arc, and character development throughout major artistic movements in dramatic literature within the social and political context they were written, and to express that appreciation in reasoned analyses.

THEATER 185 DIRECTED STUDY - THEATER

1 Units (Lec 1 Hrs)
Transfer Credit: CSU

Theater students pursue directed study on a contract basis under the direction of a supervising instructor.

THEATER 200 INTRODUCTION TO ACTING

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC

Through lecture, discussion, demonstration, and various participation exercises, the student is introduced to the art and craft of acting.

**THEATER 210 INTRODUCTION TO ORAL
INTERPRETATION OF
DRAMATIC LITERATURE**

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC

The student studies the techniques of oral interpretation—including phrasing, inflection, word relish, verse scansion, tempo, and rhythm—designed to develop the actor's interpretative skills.

**THEATER 212 INTRODUCTION TO ORAL
INTERPRETATION OF
SHAKESPEAREAN LITERATURE**

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC

Students study and practice techniques of oral interpretation—including phrasing, inflection, word relish, verse scansion, tempo, and rhythm—designed to develop the actor's interpretative skills of Shakespearean text at an introductory level.

THEATER 225 BEGINNING DIRECTION

3 Units (Lec 3 Hrs)
Transfer Credit: CSU, UC
Advisory: THEATER 274-1

The student learns fundamental concepts in stage direction as explored through lecture, exercise, and demonstration. Beginning with play analysis from a director's point of view to creating a directorial vision, the course includes an introduction to the basic principles of stage directing and the fundamental working techniques for the realization of the values of a play onstage.

**THEATER 235 PLAY PRODUCTION AND
COMPANY PERFORMANCE**

5 Units (Lab 15 Hrs)
Transfer Credit: CSU, UC
Prerequisite: THEATER 270

Theater students study the rehearsal and performance practices of performing in theater productions assigned as lead actors, character actors, or bit parts. Theater students study the real practices of managerial and technical theater while participating in college public performances, technical shops, and theater spaces. Production work may consist of the following: acting, carpentry, costumes, painting, lighting, sound, props, and stage management. Study culminates in a college public performance entered in the American College Theater Festival.

**THEATER 235-1 PLAY PRODUCTION AND COMPANY
PERFORMANCE I**

5 Units (Lab 10 Hrs)
Transfer Credit: CSU
Prerequisite: THEATER 274-1
Corequisite: THEATER 242-3 or THEATER 274-1

Theater students study the rehearsal and performance practices of performing in theater productions assigned as lead actors, character actors, or bit parts. Theater students study the real practices of managerial and technical theater while participating in college public performances, technical shops, and theater spaces. Production work may consist of the following: acting, carpentry, costumes, painting, lighting, sound, props, and stage management. Study culminates in a college public performance entered in the American College Theater Festival.

THEATER 235-2 PLAY PRODUCTION AND COMPANY PERFORMANCE II

5 Units (Lab 10 Hrs)
 Transfer Credit: CSU
 Prerequisite: THEATER 270

More advanced Theater students study the rehearsal and performance practices of performing in theater productions assigned as lead actors, character actors, or bit parts. Theater students study the real practices of managerial and technical theater while participating in college public performances, technical shops, and theater spaces. Production work may consist of the following: acting, carpentry, costumes, painting, lighting, sound, props, and stage management. Study culminates in a college public performance entered in the American College Theater Festival.

THEATER 240 VOICE AND ARTICULATION FOR THE THEATER

3 Units (Lec 3 Hrs)
 Transfer Credit: CSU, UC

Students develop and practice correct voice and speech skills which emphasize clarity, precision, tone, dynamics, and expressive use of language for the theater.

THEATER 242-1 VOCAL AND PHYSICAL DEVELOPMENT-LEVEL I

2.5 Units (Lab 5 Hrs)
 Transfer Credit: CSU
 Corequisite: THEATER 345

The student actor studies, practices, and demonstrates knowledge and skill in vocal and physical development at an introductory level with specific emphasis on proper breath support, alignment, and vocal and physical clarity, freedom, and strength.

THEATER 242-2 VOCAL AND PHYSICAL DEVELOPMENT-LEVEL II

2.5 Units (Lab 5 Hrs)
 Transfer Credit: CSU
 Prerequisite: THEATER 242-1
 Corequisite: THEATER 294-1

The student learns and demonstrates knowledge, as well as skill, in vocal and physical development at a beginning level with specific emphasis on resonance, precision and dynamics, and enhanced expressiveness.

THEATER 242-3 VOCAL AND PHYSICAL DEVELOPMENT-LEVEL III

2.5 Units (Lab 5 Hrs)
 Transfer Credit: CSU
 Prerequisite: THEATER 242-2
 Corequisite: THEATER 235-1

The student learns and demonstrates knowledge, as well as skill in vocal and physical development at an intermediate level with specific emphasis on diction, International Phonetic Alphabet (IPA), and dance choreographed movement.

THEATER 242-4 VOCAL AND PHYSICAL DEVELOPMENT-LEVEL IV

2.5 Units (Lab 5 Hrs)
 Transfer Credit: CSU
 Prerequisite: THEATER 242-3
 Corequisite: THEATER 294-2

The student learns and demonstrates knowledge, as well as skill in vocal and physical development at an advanced level with specific emphasis on elevated speech and language, rhythm and gestural expressiveness, and stage combat.

THEATER 262 SPECIAL PROJECTS

2 Units (RPT 3) (Lab 4 Hrs)
 Transfer Credit: CSU
 Prerequisite: THEATER 270

Advanced students are given the opportunity to plan, rehearse, stage, and produce approved all-student projects for presentation before an audience.

THEATER 262-1 SPECIAL PROJECTS I

2 Units (Lab 4 Hrs)
 Transfer Credit: CSU

Beginning and intermediate students engage in a variety of special limited topics, practicing skills and production activities not available in full-length courses.

THEATER 262-2 SPECIAL PROJECTS II

Units (Lab 4 Hrs)
 Transfer Credit: CSU
 Prerequisite: THEATER 262-1

Advanced students engage in a variety of special limited topics, practicing skills and production activities not available in full-length courses, and may be given the opportunity to plan, rehearse, stage, and produce approved all-student projects for presentation before an audience.

THEATER 270 BEGINNING ACTING

Units (Lec 2 Hrs / Lab 4 Hrs)
 Transfer Credit: CSU, UC, C-ID (THTR 151)

The student receives an introduction to the art and craft of acting. This class is the first level of the Theatre Academy Professional Training Program's acting option. The main focus of the work will be on stage using the physical body and voice to experience the process of the actor. Topics covered include basic stage technique, movement values, relaxation, body awareness, physical limbering and alignment, pantomimic dramatization, play and scene study. Students will receive an introductory appreciation of how an actor trains for a career in theatre, film, and television as they develop their own skills of physical, verbal, and emotional communication.

THEATER 271 INTERMEDIATE ACTING

3 Units (Lec 3 Hrs)
 Transfer Credit: CSU, UC
 Prerequisite: THEATER 200

Acting principles are expanded and applied in staged scenes. The emphasis is on comprehension, translation into meaningful dramatic action, and creation. The actor's self-awareness is explored and developed before a classroom audience.

THEATER 272 INTERMEDIATE APPLIED ACTING

3 Units (Lec 2 Hrs / Lab 4 Hrs)
 Transfer Credit: CSU, UC, C-ID (THTR 152)
 Prerequisite: THEATER 100, THEATER 270

The student learns to apply the acting principles introduced in THEATER 270 in staged scenes. The student incorporates fundamental and basic techniques of acting into

meaningful dramatic action on stage. The actor's self-awareness is explored and developed before a classroom audience in scenes and exercises.

THEATER 274-1 ADVANCED APPLIED ACTING-LEVEL I

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: THEATER 272

The student learns to engage in greater in-depth analysis of staged scenes. Emphasis is placed upon the rehearsal process and rehearsal techniques.

THEATER 274-2 ADVANCED APPLIED ACTING-LEVEL II

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU, UC

Prerequisite: THEATER 274-1

The student learns to engage in character and text analysis of roles in staged scenes at an advanced level. Emphasis is placed upon the student's demonstration of advanced rehearsal processes and techniques.

THEATER 275 SCENE STUDY

Units (Lec 1 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Prerequisite: THEATER 270

The student learns about the similarities and differences in acting techniques applied when studying and performing scenes from theater, film, television, commercials, and new media.

THEATER 276-1 ACTORS' WORKSHOP-LEVEL I

Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU

Prerequisite: THEATER 274-2

The student learns to analyze scenes and speeches from selected plays at an advanced level. Content emphasizes research, characterization, playing actions/reactions, vocal development, emotional centering, discoveries, release, control and physical expressiveness.

THEATER 276-2 ACTORS' WORKSHOP-LEVEL II

3 Units (Lec 2 Hrs / Lab 4 Hrs)

Transfer Credit: CSU P

Prerequisite: THEATER 276-1

The student learns to analyze scenes and speeches from selected plays at an advanced level. Content emphasizes research, characterization, playing actions/reactions, vocal development, emotional centering, discoveries, release, control, and physical expressiveness.

THEATER 277 CHARACTER ANALYSIS

3 Units (Lec 3 Hrs)

Transfer Credit: CSU, UC

Prerequisite: THEATER 270

The course covers the analytical steps involved in the study of a play and the development of character preparatory for rehearsal and performance.

THEATER 285 DIRECTED STUDY - THEATER

2 Units (Lec 2 Hrs)

Transfer Credit: CSU

Allows students to pursue Directed Study on a contract basis under the supervision of a supervising instructor.

THEATER 294 REHEARSALS AND PERFORMANCES IV

4 Units (RPT 3) (Lab 12 Hrs)

Transfer Credit: CSU, UC, C-ID (THTR 191)

Prerequisite: CINEMA 002 or THEATER 270

Students perform a role (or roles) in a public performance of a play in the Theatre Academy season integrating principles and techniques of acting, character analysis, voice and movement. Students will be introduced to rehearsal disciplines and professional work habits during the preparation for public performance and will experience audience response to their acting skills.

THEATER 294-1 REHEARSALS AND PERFORMANCES I

4 Units (Lab 12 Hrs)

Transfer Credit: CSU

Corequisite: THEATER 272

Students perform a role (or roles) in a public performance of a play in the Theatre Academy season integrating principles and techniques of acting, character analysis, voice, and movement. Students will be introduced to rehearsal disciplines and professional work habits during the preparation for public performance and will experience audience response to their acting skills.

THEATER 294-2 REHEARSALS AND PERFORMANCES II

4 Units (Lab 12 Hrs)

Transfer Credit: CSU

Prerequisite: THEATER 276-1

Corequisite: THEATER 242-4 or THEATER 276-1

Students perform a more advanced role (or roles) in a public performance of a play in the Theatre Academy season integrating principles and techniques of acting, character analysis, voice, and movement. Students will be introduced to rehearsal disciplines and professional work habits during the preparation for public performance and will experience audience response to their acting skills.

THEATER 300 INTRODUCTION TO STAGE CRAFT

3 Units (Lec 3 Hrs)

Transfer Credit: CSU, UC, C-ID (THTR 171)

The student studies the theory and professional practices of design and technical play production for scenery, properties, lighting, sound, costuming, and stage management.

THEATER 302 INTRODUCTION TO STAGE MANAGEMENT

3 Units (Lec 3 Hrs)

Transfer Credit: CSU, UC

Students learn the function of stage managers in professional theater productions.

THEATER 311 THEATRICAL LIGHTING

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, UC, C-ID (THTR 173)

Students develop skills used in theatrical lighting, including use of lighting instruments, accessories, control systems, as well as safety procedures. Students will light projects that develop foundational skills- placement of appropriate lights, magic sheets, and patching, as well as accuracy in the reproduction of light plots.

THEATER 313 SCENIC PAINTING FOR THE THEATER**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

Students develop skills used in theatre scene painting, including the use of equipment and materials, preparation of paint surfaces, paint application techniques, and safety practices. Students will paint projects that develop foundational skills, such as cartooning and layout, color theory, paint mixing, brushwork (lining, lay-in, wet blend), and accuracy in the reproduction of paint elevations.

THEATER 314 THEATRICAL SOUND DESIGN FUNDAMENTALS, PROCEDURES/ OPERATIONS**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU**

Students interested in the study of theory and practices used to setup production and sound equipment related materials utilized in a professional sound design for the theater. Students will practice professional sound installations and design techniques.

THEATER 315 INTRODUCTION TO THEATRICAL SCENIC DESIGN**3 Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC**

Students study and develop a graphic vocabulary in order to express design concepts for scenic environments. Students analyze specific text or events and create design documentation in order to communicate ideas and visual concepts. Class projects focus on specific skills and forms of design presentations; script analysis, ground plan and section, elevations, details, model building and computer pre-visualization of virtual environments.

THEATER 321 COMPUTER AIDED DRAFTING AND DESIGN-III**3 Units (Lec 3 Hrs)****Transfer Credit: CSU**

Students create design plans for theatre disciplines on various computer applications including AutoCAD, SketchUp, and SketchBook. The design student will be introduced to the necessary skills to create professional design documentation and paperwork for scenic, lighting, and costume design.

THEATER 325 ADVANCED STAGE CRAFT**Units (Lec 2 Hrs / Lab 2 Hrs)****Transfer Credit: CSU, UC****Prerequisite: THEATER 300**

This course provides the student with instruction in advanced methods, physical techniques, and crew responsibilities of the theater technician in all specialty areas. The course emphasizes practical solutions and leadership in crew and equipment management. The student uses state-of-the-art stage equipment and show operation forms to contribute to a production in multiple entertainment media. The direct outcome is to prepare the student for work in the behind the scenes of the entertainment industry.

THEATER 335 APPLIED STAGE MANAGEMENT AND PRODUCTION IV**Units (RPT 3) (Lab 12 Hrs)****Transfer Credit: CSU, UC, C-ID (THTR 192)**

Technical Theatre students study the real and theoretical practices of managerial and technical theatre while constructing an actual production in college shops. Production work will consist of carpentry, painting, lighting, sound editing, and/or stage management

THEATER 335-1 APPLIED STAGE MANAGEMENT AND PRODUCTION I**4 Units (Lab 12 Hrs)****Transfer Credit: CSU**

Beginning technical theater students study the real and theoretical practices of managerial and technical theatre while constructing an actual production in college shops. Production work will consist of introductory-level carpentry, painting, lighting, sound editing, and/or stage management.

THEATER 335-2 APPLIED STAGE MANAGEMENT AND PRODUCTION II**4 Units (Lab 12 Hrs)****Transfer Credit: CSU****Prerequisite: THEATER 335-1**

Level-two technical theater students study the real and theoretical practices of managerial and technical theatre while constructing an actual production in college shops. Production work will consist of introductory-level carpentry, painting, lighting, sound editing, and/or stage management.

THEATER 335-3 APPLIED STAGE MANAGEMENT AND PRODUCTION III**4 Units (Lab 12 Hrs)****Transfer Credit: CSU****Prerequisite: THEATER 335-2**

Level-three technical theater students study the real and theoretical practices of managerial and technical theater while constructing an actual production in college shops. Production work will consist of level-three carpentry, painting, lighting, sound editing, and/or stage management.

THEATER 335-4 APPLIED STAGE MANAGEMENT AND PRODUCTION IV**4 Units (Lab 12 Hrs)****Transfer Credit: CSU****Prerequisite: THEATER 335-3**

Advanced technical theater students study the real and theoretical practices of managerial and technical theater while constructing an actual production in college shops. Production work will consist of advanced level carpentry, painting, lighting, sound editing, and/or stage management.

THEATER 338 INTRODUCTION TO DESIGN: THEATER, FILM, AND TV**Units (Lec 3 Hrs)****Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A),****C-ID (THTR 172)**

The student studies the design process for theatre, film, and TV. Specific topics include the relationship between text and design choices, recognition of basic compositional elements; color, mass, line, texture, rhythm, balance as used in storytelling; and the creation of design presentations through collage. Additional lecture topics include, architectural spaces

of storytelling, from the proscenium arch to the sound stage, business practices of design, union affiliations for professional designers, and typical business vocabulary.

THEATER 345 TECHNICAL STAGE PRODUCTION

Units (Lab 12 Hrs)

Transfer Credit: CSU, UC, C-ID (THTR 192)

Corequisite: THEATER 270

Acting students study the real and theoretical practices of managerial and technical theatre while mounting an actual production in a college theater venue. Production work will consist of the collaborative synthesis of multiple departments in the creation of a theatrical performance and the techniques necessary in the management of resources towards a successful entertainment event.

THEATER 385 DIRECTED STUDY - THEATER

3 Units (Lec 3 Hrs)

Transfer Credit: CSU

Theater students pursue on their own an in-depth study of a subject of special interest in the field of theater. Consultation with the instructor on a weekly basis and independent work is required.

THEATER 400 COSTUME PERIODS AND STYLES

3 Units (Lec 3 Hrs)

Transfer Credit: CSU (CSUGE Area C1), UC (IGETC Area 3A)

The student studies the changes in dress from ancient to modern times, relating social and political forces influencing costuming for stage, film, and television.

THEATER 411 COSTUMING FOR THE THEATER

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Students study the techniques and practices of theatrical costuming. Topics include choice, use, and manipulation of patterns, textiles, jewelry, and accessories to imitate historical appearances meeting the needs of performance costume rather than clothing. Practical solutions to budget limits and camera media.

THEATER 413 COSTUME DYEING AND PAINTING

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

The student learns techniques of dyeing and surface design of fabric for theater and film and practices dyeing, tie dye, batik, stencil, screening, heat transfer, aging, antiquing, and distressing.

THEATER 414 COSTUME DRAPING AND ACCESSORIES

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Students study the theory and practice of creating stage and film costumes and costume accessories through draping.

THEATER 415 COSTUME DESIGN FOR THE THEATRE

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU, C-ID (THTR 174)

Students study the techniques and practices of theatrical costume design and illustration. Topics include analyzing the play script, costume history, textiles, research, costume plot, budget, illustrating costume design, and construction of costumes for theatrical performance.

THEATER 416 MATERIALS AND METHODS FOR THE COSTUMER

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Lecture and laboratory study of various non-textile materials and techniques used by the costumer including latex, leather, plastics, glues, foam, rubber, and molds.

THEATER 417 COSTUMING FOR FILM

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Transfer Credit: CSU

Techniques and practices of costuming for film: analyzing and breaking down the script using computer spreadsheet, creating character boards, design conferences, budgeting, preproduction planning, and resourcing.

THEATER 418 COMMUNICATING THEATRICAL DESIGN

3 Units (Lec 2 Hrs / Lab 2 Hrs)

Students explore basic methods and techniques for the theatrical designer to communicate both scenic and costume design. Includes perspective drawing, ground plans, shading, textures, character bodies, and illustration techniques using pencil and colored pencil.

THEATER 419 COSTUME ILLUSTRATION

3 Units (Lec 2 Hrs / Lab 2 Hrs)

The student studies costume illustration for theater and film, including advanced figure drawing, sketch artist techniques, computer illustration, rendering textures, and creating finished costume plates.

THEATER 420 COSTUMING ON SET

Units (Lec 2 Hrs / Lab 2 Hrs)

Students study and practice techniques of on-set costuming. Instructional activities include interview with student directors, prepare for design conferences, prepare costumes, and work as an on-set costumer for a student film project. Completed film project will be viewed as part of final evaluation.

THEATER 425 APPLIED COSTUMING FOR THE THEATER

Units (RPT 3) (Lab 12 Hrs)

Transfer Credit: CSU, C-ID (THTR 192)

Students receive practical experience in construction and maintenance of costumes for public theatrical presentation. Emphasis on professional wardrobe/dressing room practices, construction, alteration, maintenance, repair, cleaning, and storage of costumes. Students must be available for rehearsals and performances.

THEATER 425-1 APPLIED COSTUMING FOR THE THEATER I

4 Units (Lab 12 Hrs)

Transfer Credit: CSU

Beginning costume students receive practical experience in construction and maintenance of costumes for public theatrical presentation. Emphasis is on professional wardrobe/dressing room practices, construction, alteration, maintenance, repair, cleaning, and storage of costumes. Students must be available for rehearsals and performances.

**THEATER 425-2 APPLIED COSTUMING
FOR THE THEATER II****4 Units (Lab 12 Hrs)****Transfer Credit: CSU****Prerequisite: THEATER 425-1**

Level-two costume students receive practical experience in construction and maintenance of costumes for public theatrical presentation. Emphasis is on professional wardrobe/dressing room practices, construction, alteration, maintenance, repair, cleaning, and storage of costumes. Students must be available for rehearsals and performances.

**THEATER 425-3 APPLIED COSTUMING
FOR THE THEATER III****4 Units (Lab 12 Hrs)****Transfer Credit: CSU****Prerequisite: THEATER 425-2**

Level-three costume students receive practical experience in construction and maintenance of costumes for public theatrical presentation. Emphasis is on professional wardrobe/dressing room practices, construction, alteration, maintenance, repair, cleaning, and storage of costumes. Students must be available for rehearsals and performances.

**THEATER 425-4 APPLIED COSTUMING
FOR THE THEATER IV****4 Units (Lab 12 Hrs)****Transfer Credit: CSU****Prerequisite: THEATER 425-3**

Level-four costume students receive practical experience in construction and maintenance of costumes for public theatrical presentation. Emphasis is on professional wardrobe/dressing room practices, construction, alteration, maintenance, repair, cleaning, and storage of costumes. Students must be available for rehearsals and performances.



NONCREDIT COURSES

Noncredit classes are not subject to repeatability restrictions.

BASIC SKILLS (BSICKL)

BSICKL 006CE REVIEW OF BASIC ENGLISH 0 Units (Lec 2 Hrs)

This course is designed for students who need an overview of high school level English. Students will review grammar, reading comprehension, literary responses, writing skills and application, and specific language used within the context of high school level English. The curriculum is designed to assist students who are in transition, either from high school and/or a dislocated worker returning back to school. The curriculum is modifiable for the Limited English Proficient (LEP) student.

BSICKL 007CE REVIEW OF BASIC MATH 0 Units (Lec 2 Hrs)

This course is a review of high school level math. The curriculum is designed to assist a variety of students, including those still in high school, in transition from high school to employment, and dislocated workers returning back to school. The curriculum is also modifiable for the Limited English Proficient (LEP) student.

BSICKL 023CE COLLEGE AND SCHOLASTIC ASSESSMENT PREPARATION 0 Units (Lec 2 Hrs)

This course is designed to review test-taking, math, reading, and writing skills to prepare students for college assessment tests, as well as orient students in note-taking, study, and organizational skills required for college success.

BSICKL 034CE HIGH SCHOOL EQUIVALENCY TEST PREPARATION 0 Units (Lec 6.5 Hrs)

This course is designed to review test-taking, math, reading, writing, science, and social studies skills to prepare students to pass a California-approved high school equivalency test.

BSICKL 035CE BASIC MATH SKILLS 0 Units (Lec 3 Hrs)

Students learn basic math skills necessary to become successful in a variety of occupations. This course is also designed to help build confidence and prepare individuals who are transitioning into a new career or need to brush up his or her skills.

BSICKL 037CE BOOTCAMP FOR ENGLISH 0 Units (Lec 1.5 Hrs)

Students will improve their academic writing. They will develop their understanding of purpose, audience, drafting, revision, and editing methods. Students will improve their critical reading and writing skills. This class is designed to help students place into ENGLISH 101, a college-level writing course.

BSICKL 052CE COLLEGE PREPARATORY ENGLISH A 0 Units (Lec 2 Hrs)

Students review material specifically designed to prepare for transferable and degree applicable courses and enhance essential academic skills. The curriculum is modifiable to meet the needs of Limited English Proficient (LEP) and Individualized Education Plan (IEP) students.

BSICKL 053CE COLLEGE PREPARATORY ENGLISH B 0 Units (Lec 2 Hrs)

This scholastic assessment preparation course is designed to prepare students for any high school equivalency exam such as the CAHSEE, HiSET, or the General Educational Development (GED) in Literature and the Arts. The class will include critical thinking skills, reading comprehension skills, interpreting graphs, analyzing literature and the arts including tone and style/prose fiction, and interpreting poetry, drama, plays, non-fiction and commentaries. The curriculum is modifiable to meet the needs of the Limited English Proficient (LEP) student.

BSICKL 067CE SUPERVISED ENGLISH TUTORING 0 Units (Lab 20 Hrs)

This course assists students in achieving objectives for any class that requires writing. Through individual and group tutoring outside of class time, students learn to develop critical thinking and writing skills at all levels from invention to organization, analysis, and clarity. Additionally, computer grammar programs and workshops assist students in strengthening their mechanical skills, and a conversation lab allows ESL students to practice their speaking skills.

BSICKL 070CE INNOVATION: IGNITING CREATIVITY AT WORK 0 Units (Lec 3 Hrs)

This course provides a foundation and framework for innovation in the discipline of creativity. Emphasis is placed on understanding what constitutes creativity and innovation, the evolution of creativity and innovation and their influence, and the importance of innovation and new ideas in today's organizational environments.

BSICKL 072CE THE CREATIVE EDGE: OUTSTANDING LEADERSHIP 0 Units (Lec 3 Hrs)

In this course, students learn and master the Creative Problem Solving Process as leaders. Students will apply and facilitate the process in a variety of leadership settings.

BSICKL 075CE INTRODUCTION TO POST-SECONDARY EDUCATION 0 Units (Lec 0.5 Hrs)

This course introduces students to the opportunities and benefits of post-secondary education. This course provides students with essential information, strategies, and tools that will help overcome real and perceived obstacles and successfully navigate their transition to college.

BSICSKL 076CE SUCCESSFUL INNOVATION AND CREATIVITY IN THE WORKPLACE**0 Units (Lec 3 Hrs)**

This course examines how ideas and innovations are implemented in our organizations. We will explore why some organizations are successful at innovation and why others fail. Students will analyze how creativity and innovation can be used as a tool for business leadership and the workplace.

BSICSKL 079CE CREATIVITY, INNOVATION, AND LEADERSHIP**0 Units (Lec 3 Hrs)**

This course examines the relationship between creativity, innovation, and leadership. Participants analyze their own leadership style and how to lead others through change.

BSICSKL 083CE GED/HISET PREPARATION: LITERATURE AND THE ARTS**0 Units (Lec 3 Hrs)**

Students prepare for any high school equivalency exam such as the General Educational Development (GED), HiSET, TASC, or any high school equivalency exam in Literature and the Arts. The class includes critical thinking, reading comprehension, interpreting graphs, analyzing literature and the arts, tone and style/prose fiction, interpreting poetry, drama, plays, nonfiction, and commentaries. This course is also modifiable for distance learning and the Limited English Proficient (LEP) student.

BSICSKL 084CE GED/HISET PREPARATION: MATHEMATICS**0 Units (Lec 3 Hrs)**

Students prepare for any high school equivalency exam such as the General Educational Development (GED), Hi-SET, or TASC in Mathematics. The class covers arithmetic, the metric system, algebra, geometry, statistics, and probability problems. Depending upon the diagnostic assessment, students will be directed to an appropriate plan of study. This course is also modifiable for distance learning and the Limited English Proficient (LEP) student.

BSICSKL 085CE GED/HISET PREPARATION: SCIENCE**0 Units (Lec 3 Hrs)**

Students prepare for any high school equivalency exam such as the General Educational Development (GED), HiSET, or the TASC. This course covers biology, earth science, astronomy, geology, meteorology, chemistry, and physics. This course is also modifiable for distance learning and the Limited English Proficient (LEP) student.

BSICSKL 086CE GED/HISET PREPARATION: SOCIAL STUDIES**0 Units (Lec 3 Hrs)**

Students prepare for any high school equivalency exam such as the General Educational Development (GED), HiSET, or the TASC and enhances students' ability to read, understand, and use information in the context of social studies. Students focus on the five basic social studies content areas: United States history, civics and government, economics, and geography. This course is also modifiable for distance learning and the Limited English Proficient (LEP) student.

BSICSKL 118CE POST SECONDARY STRATEGIES FOR ACADEMIC SUCCESS**0 Units (Lec 2 Hrs)**

An introduction to Los Angeles City College that includes academic counseling, development of a Student Educational Plan (SEP), programs, services, policies, degrees, certificates, transfer requirements, and college culture. Focus will be on the completion of the Student Equity and Achievement Program (SEAP) requirements and strategies needed for academic success.

BSICSKL 200CE COLLEGE READINESS: MATH SKILLS I**0 Units (Lec 2 Hrs)**

This foundational level course is designed to build math competency skills that meet the Common Core State Standards for mathematics and prepare students for high school equivalency examinations and college and career readiness. Competencies include basic arithmetic skills including addition, subtraction, multiplication, and division of whole numbers, and an introduction to fractions and decimals problems. Students will focus on computational and problem-solving skills in each area.

BSICSKL 201CE COLLEGE READINESS: MATH SKILLS II**0 Units (Lec 2 Hrs)**

This basic level course is designed to build math competency skills that meet the Common Core State Standards for mathematics and prepare students for high school equivalency examinations, vocational, and college readiness coursework. Competencies include using computation and applied math skills to solve problems in addition, subtraction, multiplication, and division of fractions, decimals, percentages, and ratios and proportions, integers, algebraic expressions, and formulas. Students will focus on computational and problem-solving skills in each area.

BSICSKL 202CE COLLEGE READINESS: MATH SKILLS III**0 Units (Lec 3 Hrs)**

Students learn operations of real numbers and algebraic expressions, solving linear equations and inequalities in one or two variables, solving systems of linear equations in two variables, and simplifying expressions involving exponents and roots.

BSICSKL 203CE COLLEGE READINESS MATH SKILLS IV**0 Units (Lec 3 Hrs)**

Students learn techniques for solving compound linear inequalities and absolute value equations and inequalities, solving systems of linear equations in two and three variables, simplifying non-linear expressions, and solving non-linear equations such as polynomial, rational, radical, exponential, and logarithmic.

ENGLISH SECOND LANGUAGE - NC (ESL NC)

ESL NC 001CE ENGLISH AS A SECOND LANGUAGE - BEGINNING I

0 Units (Lec 3 Hrs)

Students in this entry-level course will learn to develop reading comprehension, critical thinking, and vocabulary skills that will prepare them for their academic and career success. In addition, the students will develop basic reading and speaking skills by utilizing materials at the appropriate reading level.

ESL NC 002CE ENGLISH AS A SECOND LANGUAGE - BEGINNING II

0 Units (Lec 3 Hrs)

Students in this beginning level course will learn to develop reading comprehension, critical thinking, and vocabulary skills that will prepare them for their academic and career success. This course is designed to build upon the skills learned in ESL Beginning I. In addition, the students will continue to develop reading and speaking skills by utilizing materials at the appropriate reading level.

ESL NC 050CE BEGINNING CONVERSATION

0 Units (Lec 3 Hrs)

This course is designed for students who wish to improve their listening comprehension of English and to increase their ability to make themselves understood, using conversational American English speech. This is the introductory level ESL conversation course.

ESL NC 360CE VESL: ENGLISH FOR SPECIAL USES

0 Units (Lec 3 Hrs)

This course covers English as a Second Language (ESL) speaking, writing, vocabulary, and study skills for career and technical education (CTE) and academic purposes. Focus areas include critical thinking, cultural awareness, teamwork, and autonomous learning strategies.

ENGLISH AS A SECOND LANGUAGE CIVICS (ESLCVCS)

ESLCVCS 010CE ESL AND CIVICS I

0 Units (Lec 1 Hrs)

Students learn civic content and practice oral/aural skills necessary to begin the process of becoming a United States citizen. Students develop beginning listening, speaking, reading, and writing skills at an introductory English as a Second Language (ESL) level.

ESLCVCS 011CE ESL AND CIVICS II

0 Units (Lec 1 Hrs)

Students learn civic content and practice oral/auditory skills necessary to begin the process of becoming a United States citizen. Students continue to develop listening, speaking, reading and writing skills in preparation to take the United States Citizenship and Immigration interview at a beginning English as a Second Language (ESL) level.

ESLCVCS 012CE ESL AND CIVICS III

0 Units (Lec 3 Hrs)

This competency-based, open-entry citizenship course introduces U.S. History and government with appropriate English vocabulary and grammar structure for low intermediate level ESL (English as a Second Language) students who are preparing to take the U.S. citizenship examination.

ESLCVCS 013CE ESL AND CIVICS IV

0 Units (Lec 3 Hrs)

In this open-entry, noncredit course students will learn about integrated topics of Civics and Citizenship preparation. Students will prepare for the Citizenship test and interview. They will also learn skills to assist them with their immersion into a predominately English-speaking society at an intermediate (ESL) English as a Second Language level.

ESLCVCS 014CE ESL AND CIVICS V

0 Units (Lec 3 Hrs)

This competency-based, open-entry citizenship course introduces U.S. history and government with the appropriate English vocabulary and grammar structure for high intermediate ESL (English as a Second Language) students who are preparing to take the U. S. Citizenship examination.

ESLCVCS 015CE ESL AND CIVICS VI

0 Units (Lec 3 Hrs)

Students discuss civics, U.S. history, and government at an advanced ESL (English as a Second Language) level. Students prepare for the Citizenship test and interview. Students apply skills to assist them in their immersion into a predominately English-speaking society by using advanced vocabulary.

ESLCVCS 030CE ENGLISH LITERACY AND CIVICS

0 Units (Lec 6 Hrs)

Literacy students apply the content necessary to have a functioning understanding of the English language related to the citizenship test, appropriate civics objectives, and other life skills situations. Students practice a variety of English and grammar contexts to prepare them for basic survival skills in a predominately-English speaking society.

ESLCVCS 031CE ENGLISH LITERACY AND CIVICS

0 Units (Lec 6 Hrs)

Students at the beginning-low level apply the content necessary to have a functioning understanding of the English language related to the citizenship test and similar civics objectives. Students practice a variety of English and grammar contexts to prepare them for basic life skills in a predominately-English speaking society.

ESLCVCS 032CE ENGLISH LITERACY AND CIVICS

0 Units (Lec 6 Hrs)

This is an open-entry/open-exit course for ESL students at the beginning high level. The skills of listening, speaking, reading, writing, and grammar are integrated and taught through the content of basic life, community, job, and citizenship skills.

ESLCVCS 033CE ENGLISH LITERACY AND CIVICS 3

0 Units (Lec 6 Hrs)

This is an open-entry/open-exit course for ESL students at the intermediate level. The skills of listening, speaking, writing, and grammar are integrated and taught through the content of basic life, community, job, and citizenship skills.

SUPERVISED LEARNING ASSISTANCE (TUTOR)

TUTOR 001T SUPERVISED TUTORING

0 Units (Lab 20 Hrs)

Upon faculty/counselor referral, students receive tutoring in reading, writing and computational skills in the Learning Skills Department. Cumulative progress and attendance records will be maintained for this non-credit, open-entry/open-exit course. No tuition, grades, or appearance on student's transcript. Student must be enrolled in a Los Angeles City College academic course.

VOCATIONAL EDUCATION (VOC ED)

VOC ED 002CE IN-HOME SUPPORTIVE SERVICE PROVIDERS

0 Units (Lec 5 Hrs)

Students gain the skills needed to be an In-Home Supportive Services (IHSS) Provider so that they can enable an individual to live in his/her "own home" without danger to his/her health and/or safety.

VOC ED 003CE WORKPLACE READINESS - COMPUTERS

0 Units (Lec 3 Hrs)

The objective of this course is to provide students with hands-on experience using a computer for use in the classroom, home, and the workplace. Introduction of basic computer components and functions, including hardware, operating systems, office applications, and web browsers. This course is modifiable for the limited English proficient student.

VOC ED 053CE SPANISH FOR THE WORKPLACE

0 Units (Lec 3 Hrs)

This course is designed to provide knowledge of workplace Spanish to individuals who serve, or are in contact with, populations whose primary language is Spanish. Appropriate use of basic grammatical structures, beginning-level vocabulary, verb conjugations, comprehension of basic terminology and common phrases, constructing simple sentences, commands, questions and answers, cultural awareness, and etiquette are covered.

VOC ED 054CE VESL FOR CD I: SPECIALIZED VOCABULARY IN DEVELOPMENTAL THEORIES

0 Units (Lec 1 Hrs)

This class is designed for Child Development (CD) students who need additional assistance in mastering the specialized vocabulary and developmental theories in introductory CD coursework. In addition, students will be taught study skills strategies, reading strategies, and test-taking tools contextualized for child development credit course offerings. This course is modifiable for Limited English Proficient (LEP) students and can be completed before or concurrently with CD 001.

VOC ED 055CE VOCATIONAL ENGLISH AS A SECOND LANGUAGE C

0 Units (Lec 3 Hrs)

A short-term vocational course designed for Limited English Proficient (LEP) students who need help with developing basic and content skills related to the world of work. The class focus

is speaking, listening, reading, writing, and arithmetic as practiced in the workforce and covers conduct, communication styles and relations, and health and safety issues.

VOC ED 056CE VOCATIONAL ENGLISH AS SECOND LANGUAGE FOR HEALTH CAREERS

0 Units (Lec 2 Hrs)

Students learn English and acquire a general introduction to careers in the healthcare field and common medical practices. Emphasis is placed on vocabulary, medical terminology, pronunciation, grammar, and the comprehension skills necessary for successful transition to health classes. This course is designed for the Limited English Proficient (LEP) student.

VOC ED 059CE VESL FOR HOME-HEALTH AID

0 Units (Lec 1 Hrs)

This course is designed for students who need to acquire a general introduction to careers in the healthcare field and common medical practices. Emphasis is placed on vocabulary, medical terminology, pronunciation, and comprehension skills necessary for successful transition to health classes. This class is modifiable for the Limited English Proficient (LEP) student.

VOC ED 060CE CUSTODIAL TECHNICIAN TRAINING

0 Units (Lec 3 Hrs)

This course will provide students with the knowledge and hands-on training needed to apply entry-level building maintenance service positions in the public and private sectors. Students will learn and practice basic safety protocols, the use of common custodial tools, and specific cleaning processes for different types of building areas.

VOC ED 078CE VOCATIONAL ENGLISH AS A SECOND LANGUAGE B

0 Units (Lec 3 Hrs)

A short-term vocational course designed for Limited English Proficient (LEP) students who need help with developing basic and content skills related to the world of work. The course focus is speaking, listening, reading, writing, and arithmetic as practiced in the workplace and covers conduct, communication styles and relations, and health and safety issues.

VOC ED 079CE VOCATIONAL ENGLISH AS A SECOND LANGUAGE A

0 Units (Lec 3 Hrs)

A short-term vocational course designed for Limited English Proficient (LEP) students who need help with developing basic and content skills related to the world of work. The course focus is speaking, listening, reading, writing, and arithmetic as practiced in the workforce.

VOC ED 084CE ENTREPRENEUR TRAINING PROGRAM

0 Units (Lec 2 Hrs)

Students are introduced to basic concepts of entrepreneurship. Topics covered include, but are not limited to: thinking like an entrepreneur, entrepreneurship vocabulary, ways to grow a business, developing a business plan, managing business financials, and performance.

VOC ED 092CE WORKPLACE COMMUNICATION: LEADERSHIP SKILLS AND TEAM BUILDING

0 Units (Lec 3 Hrs)

This is a practical class asking students to use their critical thinking skills to change their old habits, attitudes, and beliefs. Understanding how the mind works, using the cognitive skills of

problem solving, and positive decision making will enable the students to move from a “fixed” mindset to a “growth” mindset, taking their existing knowledge and stretching their minds to create new pathways of goal setting and opening the door to improving their innate potential.

**VOC ED 093CE WORKPLACE COMMUNICATION:
MANAGING SUCCESSFUL RELATIONSHIPS**
0 Units (Lec 2 Hrs)

This course is designed to support students in making decisions that affect work-life balance. Students learn the skills necessary to build and maintain healthy relationships, communication patterns, effective speaking and listening techniques, workplace ethics, the importance of becoming a person of character, and discussing hidden issues that hinder students from completing their goals.

**VOC ED 094CE RETAILING SMARTS:
CUSTOMER SERVICE AND SALES**
0 Units (Lec 5 Hrs)

This course is designed to support students in making decisions that affect work-life balance. Students learn the skills necessary to build and maintain healthy relationships, communication patterns, effective speaking and listening techniques, workplace ethics, the importance of becoming a person of character, and discussing hidden issues that hinder students from completing their goals.

VOC ED 095CE TRAINING FOR TUTORS - WRITING
0 Units (Lec 1 Hrs)

Students learn theory and practice in tutoring sessions specific to working in a writing center. Topics will include tutoring etiquette, managing the tutoring session, addressing higher-order and sentence-level writing problems, working with diverse populations, and working with difficult tutees.

VOC ED 103CE INTRODUCTION TO WORD PROCESSING
0 Units (Lec 3 Hrs)

This course provides a basic introduction to word processing software, including creating, saving, formatting, editing, and printing of documents using word processing software and cloud-based (online) word processing software.

VOC ED 104CE INTRODUCTION TO SPREADSHEETS
0 Units (Lec 3 Hrs)

This course provides a basic introduction to spreadsheet software, including spreadsheet terminology, data entry, formatting, references, and databases.

**VOC ED 105CE INTRODUCTION TO MULTIMEDIA
PRESENTATIONS**
0 Units (Lec 3 Hrs)

This course provides a basic introduction to multimedia presentation software, including understanding concepts of combining text, graphics, animations, and/or sound to create slides for electronic output; and developing computer-generated presentations for academic or career-related purposes.

**VOC ED 128CE INTRODUCTION TO KEYBOARDING AND
WINDOWS FOR THE WORKPLACE**
0 Units (Lec 3 Hrs)

Provides introductory instruction for manual keyboarding and MS Windows. Introduces student to Windows terminology, navigation, views, commands, file management, desktop

customization, and simple graphics. This course is highly recommended prior to taking other courses taught within the Windows environment.

VOC ED 129CE INTRODUCTION TO THE INTERNET
0 Units (Lec 3 Hrs)

This course provides a basic introduction to using the Internet for academic, career, or personal use. Students explore topics including types of Internet connections, email, research, and data retrieval techniques.

**VOC ED 171CE EARLY CHILDHOOD EDUCATION:
PARENT SUPPORT**
0 Units (Lec 1 Hrs)

This course examines the role of the parent throughout the early stages of child development and provides strategies for supporting a variety of parenting styles and family structures. In addition, students will learn about positive parenting behaviors and explore techniques for fostering positive parent training with emphasis on family life. Focus areas include parent-child relationships, alternatives in parenting styles, child development, and family resources.

VOC ED 230CE 30 WAYS TO SHINE AS A NEW EMPLOYEE
0 Units (Lec 0.33 Hrs)

This short-term vocational education course is designed to provide new and incumbent workers “30 Ways to Shine as a New Employee” and increase their level of confidence and colleague relations. The topics covered include, but are not limited to, new beginners, understanding the workplace culture, and dealing with change. After completing this course, the student has an option to continue their education or become gainfully employed. The curriculum is modifiable for the Limited English Proficient (LEP) student.

VOC ED 231CE RETAILING SMARTS: BUILDING SALES
0 Units (Lec 1 Hrs)

New and incumbent workers learn sales building skills and techniques required in getting to know their customer or client. The curriculum is modifiable for the Limited English Proficient (LEP) student. The topics covered include, but are not limited to, suggesting additional merchandise, creating special promotions, and taking the guesswork out of gift giving.

VOC ED 232CE CLOSING THE SALE
0 Units (Lec 1 Hrs)

New and incumbent workers learn the skills and strategies required in making a sale. The curriculum is modifiable for the Limited English Proficient (LEP) student. The topics include recognizing buying signals, asking for the sale, and suggesting helpful add-ons.

VOC ED 233CE COMPLETING THE SALES TRANSACTION
0 Units (Lec 1 Hrs)

New and incumbent workers gain the skills needed to efficiently complete sales transactions. The curriculum is modifiable for the Limited English Proficient (LEP) student. The topics covered but are not limited to accepting checks and credit cards, and completing sales transaction paperwork.

VOC ED 234CE EXPLAINING FEATURES AND BENEFITS
0 Units (Lec 1 Hrs)

New and incumbent workers learn strategies to explain features and benefits for a variety of products to customers. The curriculum is modifiable for the Limited English Proficient (LEP)

student. The topics covered include, but are not limited to, learning about the products you sell, identifying product features, and demonstrating product features.

**VOC ED 235CE CUSTOMER SERVICE SMARTS:
GOING THE EXTRA MILE**

0 Units (Lec 1 Hrs)

New and incumbent workers receive the strategies required in going the extra mile for a customer. The curriculum is modifiable for the Limited English Proficient (LEP) student. The topics covered but are not limited to: customer follow-up, artfully using business cards, business card etiquette and offering personal services.

VOC ED 236CE JOB CLUB

0 Units (Lec 1 Hrs)

New and incumbent workers learn skills to prepare them for the workforce. The curriculum is modifiable for the Limited English Proficient (LEP) student. The topics covered include, but are not limited to increasing the level of customer service and colleague relations, planning the job search, utilizing outside resources, navigating the "hidden" job market, job market research strategies, and understanding the workplace culture and dealing with workplace change.

**VOC ED 237CE STRATEGIES IN MEETING
YOUR CUSTOMERS NEEDS**

0 Units (Lec 1 Hrs)

New and incumbent workers receive the strategies required in understanding their customers or client's needs. The curriculum is modifiable for the Limited English Proficient (LEP) student. The topics covered include, but are not limited to, making shopping an enjoyable experience, accommodating customers with disabilities, interacting with in-store and phone customers, keeping commitments to your customer, and handling special orders.

VOC ED 238CE JOB READINESS

0 Units (Lec 2 Hrs)

Students receive the necessary tools and skills to prepare for and achieve their career goals. The topics covered include, but are not limited to, interest and skills inventory, goal setting, career exploration, workplace etiquette and culture, workplace laws, effective communication, conflict resolution, time management, job market realities, workplace skills contacting employers, preparing for the interview, getting hired, and keeping the job. This course can be modified for the Limited English Proficient (LEP) student.

VOC ED 239CE CUSTOMER SERVICE SKILLS

0 Units (Lec 1 Hrs)

This short-term vocational education course is designed to provide new and incumbent workers with effective techniques required to provide quality and memorable customer service. This course is also relevant for entrepreneurs who are interested in customer and client retention.

**VOC ED 240CE STRATEGIES IN ADAPTING
TO YOUR CUSTOMER**

0 Units (Lec 1 Hrs)

New and incumbent workers receive the strategies required in adapting to their customers or clients. The curriculum is modifiable for the Limited English Proficient (LEP) student. The topics cover learning how to greet customers, building relationships, and determining a customer's needs.

VOC ED 241CE GET TO KNOW YOUR CUSTOMER

0 Units (Lec 1 Hrs)

New and incumbent workers learn the methods and skills in how to get to know their customer. The curriculum is modifiable for the Limited English Proficient (LEP) student. The topics covered include, but are not limited to, providing personalized customer service by greeting customers in a winning way, building relationships, and determining a customer's needs.

VOC ED 242CE BANQUET SERVER SKILLS TRAINING

0 Units (Lec 1 Hrs)

Banquet Server skills workshop is designed to provide new and incumbent workers with the skills needed to be the best in banquet services. Some of the topics covered include, but are not limited to: setting tables for banquets, providing beverage service, taking and serving orders, maintaining buffet tables, and refreshing meeting rooms.

**VOC ED 243CE FRONT DESK REPRESENTATIVE -
MAKING A GOOD IMPRESSION**

0 Units (Lec 1 Hrs)

Front Desk Representative workshop is designed to provide new and incumbent workers with the tools to provide superior guest service. Students will learn, among other skills, how to use effective sales techniques, conduct guest check-ins, serve guests with special needs and turn customer complaints into opportunities to build great relationships with their guests.

VOC ED 244CE LAUNDRY ATTENDANT SKILLS TRAINING

0 Units (Lec 1 Hrs)

New and incumbent workers learn the skills to provide the best in guest services. Some of the topics covered include, but are not limited to, using washers and dryers, sorting and ironing linens, using mechanical flat-work iron and line-folding equipment, sewing and mending, and responding to housekeeping requests.

**VOC ED 245CE PUBLIC SPACE CLEANER
SKILLS TRAINING**

0 Units (Lec 1 Hrs)

New and incumbent workers learn skills to become an effective Public Space Cleaner. Some of the topics covered include, but are not limited to: preparing public spaces for cleaning, using various cleaning tools and agents, learning different methods of cleaning.

VOC ED 246CE RESTAURANT SERVER SKILLS TRAINING

0 Units (Lec 1 Hrs)

The Restaurant Server course is designed to provide new and incumbent workers with the tools they need to provide the best in restaurant services. Some of the topics covered include, but are not limited to: setting up the restaurant for service, greeting and seating guests, and taking beverage and food orders.

VOC ED 247CE KITCHEN STEWARD SKILLS TRAINING

0 Units (Lec 1 Hrs)

New and incumbent workers learn skills to become an effective Maintenance Attendant. This workshop is designed to provide the tools needed to provide the best maintenance services. Some of the topics covered include, but are not limited to: preventative maintenance, inspections, installations, repair and servicing and troubleshooting.

VOC ED 248CE MAINTENANCE EMPLOYEE SKILLS TRAINING**0 Units (Lec 1 Hrs)**

New and incumbent workers learn skills to become an effective Maintenance Attendant. This workshop is designed to provide the tools needed to provide the best maintenance services. Some of the topics covered include, but are not limited to: preventative maintenance, inspections, installations, repair and servicing and troubleshooting.

VOC ED 249CE RESERVATIONIST SKILLS TRAINING**0 Units (Lec 1 Hrs)**

New and incumbent workers learn essential computer-based reservation systems for efficient service. Students will learn to take reservations by phone, printed forms, block room, process payments and effective telephone sales techniques.

VOC ED 250CE GUESTROOM ATTENDANT SKILLS TRAINING**0 Units (Lec 1 Hrs)**

New and incumbent workers learn skills to become an effective guestroom attendant. This workshop is designed to provide the tools they need to provide the best in guest services. Some of the topics covered include, but are not limited to: preparing guestrooms for cleaning, sanitizing rooms, replenishing supplies, and keeping work areas organized.

VOC ED 253CE FOOD HANDLER'S CARD TEST PREPARATION**0 Units (Lec 1 Hrs)**

This course prepares students to take a food handler's examination to become a certified food handler in the state of California. Content includes proper food handling practices including: personal hygiene, time and temperature, cross-contamination and allergens, and cleaning and sanitization. This course is part of a short-term vocational certificate for students entering the food service industry.

VOC ED 254CE FOOD SERVICE MANAGER TEST PREPARATION**0 Units (Lec 3 Hrs)**

This course is designed for students interested in developing skills for the food service industry, focusing specifically on safe food handling, preparation, and service. Topics include personal hygiene; contamination; best practices for purchasing, receiving, storing, cooking, and serving; cleaning and sanitization; food safety management; equipment maintenance; and pest control. Students who complete this course will be prepared to take a food manager certification examination.

VOC ED 279CE CAREER EXPLORATION: WORKPLACE OFFICE ADMINISTRATION SKILLS**0 Units (Lec 0.3 Hrs)**

This competency-based course is designed for new and incumbent workers to learn office administration skills. It provides students with technical instruction and practical experience in basic computer operation required for office administration. It includes an orientation to office administration, workplace safety, resource management, and employability skills. Emphasis is placed on the computer and its parts, computer operating systems, word processing and spreadsheets, file management, Internet applications, e-mail, computer ethics and security, and virus and spyware protection. This course is modifiable for the Limited English Proficient (LEP) student. If the

student has not been enrolled in a keyboarding course or does not type at least 15 words per minute, it is recommended that the student currently enroll in VOC ED 003 Workplace Readiness – Computers.

VOC ED 294CE INTRODUCTION TO SOCIAL MEDIA - WORDPRESS BLOGS**0 Units (Lab 1 Hrs)**

This introductory course combines demonstrations and hands-on practice to provide students with the basic knowledge and skills needed to create a website using WordPress and install, configure, and use social media tools and plug-ins for a website and blog.

VOC ED 300CE INTRODUCTION TO TOURISM - CITY OF LOS ANGELES**0 Units (Lec 3 Hrs)**

This course introduces students to the local tourism industry, including the history of Los Angeles and landmarks. Students learn effective marketing and branding strategies, providing quality guest services to tourists and residents, and best practices for being ambassadors of the City of Los Angeles.

VOC ED 381CE PHLEBOTOMY TECHNICIAN I**0 Units (Lec 3 Hrs / Lab 2 Hrs)**

This course is an introduction of the phlebotomy concepts and skills that serve as a foundation for the individuals seeking certification as a phlebotomist. Topics include basic infection control, universal precautions and safety, basic anatomy and physiology of body systems with emphasis on the circulatory system and appropriate medical terminology, proper identification of patient and specimens, and proper selection and preparation of skin puncture sites.

VOC ED 382CE PHLEBOTOMY TECHNICIAN I PRACTICUM**0 Units (Lab 3 Hrs)**

This course provides the clinical laboratory experience in phlebotomy required to qualify for the examination of Certified Phlebotomy Technician I. After successfully demonstrating the following objectives, the student will have completed the 40-hour phlebotomy clinical practicum necessary for obtaining California Certified Phlebotomy Technician I Certification as required under California Code of Regulations section 1035.1. Students will learn about selecting blood collection equipment, infection control, skin punctures, venipunctures, post puncture care, processing of blood, disposal of needles, sharps, and medical waste.

VOC ED 400CE INTRODUCTION TO MEDICAL TERMINOLOGY**0 Units (Lec 1 Hrs)**

This course provides an introduction to medical terminology for those interested in health careers. Students learn the basics of word building and receive an overview of body structure and body parts. This course is the first in a sequence of two courses on medical terminology.

VOC ED 435CE INTRODUCTION TO MEDICAL TERMINOLOGY – LEVEL 2**0 Units (Lec 2 Hrs)**

This course provides an introduction to medical terminology for those interested in health careers. Students review the basics of word building and receive an in-depth look at body structure and body systems. This course is the second in a sequence of two courses on medical terminology.

**VOC ED 460CE FIRST AID & CPR
CERTIFICATION PREPARATION**

0 Units (Lec 1 Hrs)

This course provides instruction in basic first aid, CPR, and AED emergency response skills. Upon completion of the course, participants will demonstrate knowledge of comprehensive victim assessment, treatment for severe bleeding, wound and burn care, addressing shock, automatic external defibrillation (AED) use, bone, joint, and muscle injuries, heat and cold exposure, sudden illness, and adult, child, and infant CPR. This course satisfies first-time and renewal certification requirements for first aid/CPR.

