

Course Descriptions

Accounting

ACTG 100 ACCOUNTING PROCEDURES

Introduction to basic accounting principles and procedures. The accounting equation is utilized to record business transactions in journal form to create worksheets, trial balances, income statements, and balance sheets. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

ACTG 121 FINANCIAL ACCOUNTING

Introduction to the fundamentals of basic accounting including how to record business transactions, prepare financial statements, and use accounting information in accordance with generally accepted accounting principles (GAAP) and International Financial Reporting Standards (IFRS). The course includes both theoretical and practical problem-solving learning experiences to help the student develop analytical abilities in using financial data. Recommended for all business major transfer students. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Recommended: Eligibility for Elementary Algebra.

Transfer Credit: CSU, UC

C-ID: ACCT 110

ACTG 131 MANAGERIAL ACCOUNTING

This course covers accounting information used by managers, sources of this information and how this information is used when planning, directing operations, controlling cost, and decision-making. Topics include: cost concepts and cost behavior, costing systems, the analysis of cost for performance metrics, cost-volume-profit analysis, profit planning, capital budgeting, standard costs, financial statement analysis and discussion of ethical issues related to business operations and manufacturing. Recommended for all business major transfer students. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: ACTG 121

Transfer Credit: CSU, UC

C-ID: ACCT 120

ACTG 180 PAYROLL ACCOUNTING

All aspects of payroll including calculating employee compensation (wages & tips), employer and employee tax deductions, preparing journal entries for general ledger posting, and filing the required federal and state payroll forms. Historical events that resulted in current legislation and payroll tax laws are also covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: ACTG 100 or ACTG 121 or equivalent

Transfer Credit: CSU

ACTG 200 QUICKBOOKS

Introduction to the financial accounting features of QuickBooks. Setting up and maintaining a computerized system from entering business transactions through the Trial Balance and preparation of Financial Statements. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

Anthropology

ANTH 110 CULTURAL ANTHROPOLOGY

This course is an introduction to the cultures and customs of human groups throughout the world with the aim of understanding how cultures function based on their world views. Topics include subsistence methods, religious belief systems, linguistics, economics, political organization, kinship, gender, sex, marriage and family systems, social stratification, and globalization. This course stresses anthropological concepts such as culture, cultural relativism, holism, ethnocentrism, cross-cultural comparisons, world view, culture change, and fieldwork. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI



Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: ANTH 120

ANTH 125 BIOLOGICAL ANTHROPOLOGY

This course covers the concepts, methods and theory of biological evolution and its application to the human species. There is a specific focus on molecular, Mendelian and population genetics mechanisms of evolution, primatology, paleoanthropology, biocultural adaptations, human variation, and current bioethical issues. The scientific method serves as the foundation of the course. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B2

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

C-ID: ANTH 110

ANTH 126 BIOLOGICAL ANTHROPOLOGY LABORATORY

Laboratory course in which the students apply and practice the scientific methods, techniques and procedures used by physical anthropologists to understand human evolution, non-human primates and human variation. Students gain practical experience and a deeper understanding by participating in lab exercises, activities and experiments that explore human evolution, osteology, forensics, genetics, modern human variation, primate anatomy and behavior. Field trips may be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in ANTH 125 and Pre-Algebra or equivalent, or placement by other measures as applicable. Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area B3 - only if ANTH 125 is successfully completed prior to or concurrently with ANTH 126

Transfer Credit: CSU (CSU GE Area B3 - only if ANTH 125 is successfully completed prior to or concurrently with ANTH 126), UC (IGETC Area 5C*)

C-ID: ANTH 115 L

ANTH 200 ETHNOGRAPHIC FILM

Introduction to the use of film and photography by anthropologists as a research tool through viewing films depicting different cultures from around the world. Students are expected to analyze a variety of peoples from various ethnic groups in differing cultural contexts as to their contributions to the world community without prejudice or ethnocentrism. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

ANTH 351 ARCHAEOLOGY

Introduction to the theories, concepts, and methods employed by the archaeologist in the study of human history and pre-history. The diverse evolution of cultural systems are emphasized. The challenges and achievements of non-literate and traditional cultures, diverse communities, and social classes over time are also explored. Field trips may be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: ANTH 150

Architecture

ARCH 110 INTERIOR ARCHITECTURAL DRAFTING

Introduction to the tools and techniques for drafting interior spaces. Emphasis is on creating a set of interior architectural drawings using hand drafting techniques following the industry standards. A survey of current digital drafting practices is presented. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU



Art

ART 101 ANCIENT, CLASSICAL AND MEDIEVAL ART HISTORY

Survey of the historical development of the visual arts from Prehistory to the early Middle Ages, with an emphasis on architecture and sculpture. Themes include the inception of methods and techniques of art, the evolution of architectural principles, how religious philosophies and social and political systems are reflected in art, and the emergence of humanism. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 110.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: ARTH 110

ART 102 LATE MEDIEVAL, RENAISSANCE AND BAROQUE ART HISTORY

Survey of the historical development of the visual arts from the late Middle Ages to the 17th century. Themes include the rise of Renaissance humanism, comparison of the emergence of important art centers in Italy and Flanders, patronage, the role of the artist in society, development of new techniques, and the impact of the Protestant Reformation and Catholic Counter-Reformation on the form and content of art. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 110.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 103 HISTORY OF ART FROM THE BAROQUE PERIOD TO POST-IMPRESSIONISM

Survey of the historical development of the visual arts from the late 17th century to late 19th century, with an emphasis on the Enlightenment, the French Revolution, the industrial, political, and technological revolutions of the 19th century, and their influence on modern art. Focus is on Romanticism, the rise of the avant-garde, the emergence of Impressionism in France, and the art of England and America. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 110.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 104 HISTORY OF MODERN ART

Survey of major styles in western art from 1888 to 1999, Post-Impressionism to Post-Modernism. How art forms reflect the complexity and diversity of the modern world. Topics include the changing role of the artist in society, the impact of world events and technology on the arts, and art criticism. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 105 ART OF ASIA AND THE NEAR EAST

An introduction to some of the major monuments and themes of the visual arts of Asia and the Near East, this course explores the connection between great works of art and the societies, values and ideals that stimulated their creation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 110.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: ARTH 130

ART 113 GREAT MUSEUMS OF AMERICA

A cultural and historic survey of the collections of America's great art museums. This museum studies course traces the evolution of collecting and exhibiting art in America from the 18th century to the present, with emphasis on the history of the works of art in each museum. Museums of New York, Wash., D.C., Boston, Chicago and Philadelphia are included. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC



ART 114 THE ART HISTORY OF PARIS

A cultural and historic survey of the art and architecture of Paris: the Gallo-Roman settlement, Medieval Paris, the Renaissance and Baroque periods, revolutionary and Napoleonic Paris, the Second Empire and the Fin-de-Siècle, and modern Paris. This course includes a discussion of the historic figures, the social and political movements, and the artists who shaped the art history of the city. Emphasis is on architecture, painting, sculpture, and museum collections. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 110.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 116 THE ART OF GREAT BRITAIN

A cultural and historic survey of British art and architecture from Prehistory to the 19th century. Topics include megalithic structures of the Stone Age, Celtic and Roman Britain, medieval monasteries and manuscripts, castles, cathedrals, Shakespeare's England, historic houses, the Enlightenment, the English landscape movement, Jane Austen's England, the Golden Age of British painting, and Romanticism. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 118 THE ART AND ARCHITECTURE OF SPAIN

A cultural and historic survey of Spanish art and architecture from Prehistory to the 21st century. Topics include Prehistoric Spanish cave paintings, Roman Spain, Hispanic-Visigothic art, Medieval Spain, Islamic Spain, the Spanish Empire and El Greco, the Golden Age of Spanish painting, the Enlightenment and Goya, Picasso, and modern architecture in Spain. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 128 GREAT MUSEUMS OF CALIFORNIA

A cultural and historic survey of the collections of California's great art museums. This museum studies

course traces the evolution of collecting and exhibiting art in California from the 19th century to the present, with emphasis on the history of the works of art in each museum. Focus is on the museums of Los Angeles and the Bay Area. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

ART 131 ART HISTORY GOES TO THE MOVIES

A cultural and historical survey of great masters of art history, and how their creative process is depicted in film. This course includes the unique political, social, economic, and religious environment of artists in their age, and how this shaped the forms and ideas of their art. The depiction of the historic setting, demonstrations of the artists at work, and re-creation of the artistic milieu of the time through film illustrates the process of artistic production and creativity. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 204 DRAWING I

A basic course in drawing emphasizing line, shape, space and value. Students learn perceptual skills while using a variety of media. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Transfer Credit: CSU, UC

C-ID: ARTS 110

ART 205 DRAWING II

An intermediate level drawing course in which students build on skills and knowledge learned in Drawing I. A wide range of media is used including brush and ink, and pastel or oil pastel. Emphasis is on developing the expressive possibilities of drawing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework



Prerequisites: ART 204

Transfer Credit: CSU, UC

C-ID: ARTS 205

ART 206 FIGURE DRAWING AND PORTRAITURE

Drawing from the live model emphasizing underlying structure of the human body and the expressive use of drawing media. Portraiture is covered as it relates to individual characterization and expression. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Recommended: ART 204

Transfer Credit: CSU, UC

ART 207 LIFE DRAWING

Drawing the human figure from life. Basic concepts and skills include shape, volume, plane, contour, gesture, value/shading, composition and the study of structural anatomy. Various media will be used including charcoal and graphite. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Recommended: ART 204 or equivalent experience.

Transfer Credit: CSU, UC

C-ID: ARTS 200

ART 213 LIFE DRAWING II

Continued study of the human form as art using the techniques and materials of drawing in graphite, charcoal, pastel, ink, and mixed media. Application of more advanced studies of anatomy and expressive representations of the human figure in different environments. Studio practice drawing from live models. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Prerequisites: ART 207

Transfer Credit: CSU, UC

ART 214 COLOR

This is a fundamental art course, which approaches color from artistic, scientific, and expressive perspectives.

Through studio practice, and supported by slide lectures, demonstrations, and critiques, students are introduced to the major theories of color, as well as the practical skills of using color in art and design. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Transfer Credit: CSU, UC

C-ID: ARTS 270

ART 221 PAINTING I

Introductory painting course in which students learn basic oil painting techniques. Emphasis is on handling of the medium, use of color, variety of approaches, and representation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Recommended: ART 204

Transfer Credit: CSU, UC

C-ID: ARTS 210

ART 222 PAINTING II

Further development of concepts and techniques acquired in Painting I with an emphasis on a greater variety of subject matter and individual expression. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Prerequisites: ART 221

Transfer Credit: CSU, UC

ART 229 LANDSCAPE PAINTING

In this oil painting course, students paint the landscape directly on location. The class meets at various locations on the Peninsula to work from nature. Emphasis is on the study of composition, color, and light while working quickly and directly. Students must provide their own transportation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Transfer Credit: CSU, UC



ART 231 WATERCOLOR I

Introduction to transparent and opaque Watercolor. Varied approaches and techniques are used, with an emphasis on working from observation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Recommended: Satisfactory completion of one or more studio art courses.

Transfer Credit: CSU, UC

ART 232 WATERCOLOR II

Continuation of ART 231. Additional exploration of watercolor painting as a vehicle for creative art expression. This includes the use of more advanced techniques as well as the development of compositional skills. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Prerequisites: ART 231 or equivalent.

Transfer Credit: CSU, UC

ART 250 THE ART HISTORY OF ROME

A cultural and historic survey of the art and architecture of Rome: the Etruscans, Republican and Imperial Rome, Early Christian and Medieval periods, Renaissance and Baroque Rome. This course includes a discussion of the historic figures, and the political and religious ideologies which shaped the art history of the city. Emphasis is on architecture, sculpture, painting, and mosaics. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

ART 301 TWO-DIMENSIONAL DESIGN

An introductory studio course in the fundamentals of art and design. Students use a variety of art media in creating work that explores the use of the basic elements of two dimensional art including line, shape, value, color, space, texture, and pattern. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Transfer Credit: CSU, UC

C-ID: ARTS 100

ART 304 GALLERY DESIGN AND MANAGEMENT

Introduces the practical skills and theoretical background necessary for working in museums and galleries. Students plan, curate, design, install, maintain, and publicize exhibits on campus. Topics include: selection of artworks, writing of exhibition text, design and preparation of exhibits (matting and framing, props, installation and lighting), publicity, gallery security and maintenance, and care of collections. Also covered are historical and social context of museums and galleries. Students attend field trips to galleries, museums, and art studios in the Bay Area and create virtual exhibits. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

ART 306 THREE-DIMENSIONAL DESIGN

An introduction to the theories and applications of three-dimensional art and design. Students create studio projects using a variety of tools, techniques, and mediums which may include wire, paper, cardboard, clay, wood, and other materials at the instructor's discretion. Concepts are introduced and clarified through instructor lectures and demonstrations. Three-dimensional design is a core foundational course required in many art majors. Field trips may be included. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: ARTS 101

ART 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development,



etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Astronomy

ASTR 100 INTRODUCTION TO ASTRONOMY

Survey of modern astronomy: study of what our civilization knows about the universe and our place in it, including the Earth-Moon system, the Solar System, extrasolar planetary systems, the birth and death of stars, the Milky Way galaxy, and cosmology. Emphasis is also placed on how astronomers learn about the universe, such as the nature of light, telescopes, and the scientific method. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area B1

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

ASTR 101 ASTRONOMY LABORATORY

Introduction to the tools and methods of astronomy and understanding of the scientific process. Introduction to the celestial sphere, scale model solar system, telescopic observations, use of computer models, comparative planetology, and astronomical data representation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in ASTR 100 or 115 or 125 (ASTR 115 and 125 are offered at College of San Mateo). Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area B3 - only if ASTR 100 is successfully completed prior to or concurrently with ASTR 101

Transfer Credit: CSU (CSU GE Area B3 - only if ASTR 100 is successfully completed prior to or concurrently with ASTR 101), UC (IGETC Area 5C*)

ASTR 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Aquatics

AQUA 127.1 SWIM STROKE DEVELOPMENT I

A swimming course designed to expose students to the benefits of aerobic exercise through swimming. The focus is on the development of stroke mechanics including the free style, butterfly, back stroke, and breast stroke. Must be able to swim one length without touching the bottom or side walls. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

AQUA 127.2 SWIM STROKE DEVELOPMENT II

Continuation of AQUA 127.1. A swimming course designed to expose students to the benefits of aerobic exercise through swimming. The focus is on the development of stroke mechanics including the free style, butterfly, back stroke, and breast stroke. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: AQUA 127.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

AQUA 127.3 SWIM STROKE DEVELOPMENT III

An intermediate advanced level course designed to expose students to the benefits of aerobic exercise through



swimming. The focus is on the development of stroke mechanics including the free style, butterfly, back stroke, and breast stroke. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: AQUA 127.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

AQUA 127.4 SWIM STROKE DEVELOPMENT IV

An advanced level swim course designed to expose students to the benefits of aerobic exercise through swimming. The focus is on the development of stroke mechanics including the free style, butterfly, back stroke, and breast stroke. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: AQUA 127.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

AQUA 133.1 INDIVIDUAL SWIM CONDITIONING I

Students improve fitness and overall health through swimming. The course tailors swim workouts, drills and exercises to meet individual fitness and skill levels. Entering students must be able to swim one length without touching the bottom or side walls of the pool. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

AQUA 135.1 AQUA EXERCISE I

A beginning level cardiovascular and resistance training class conducted in a low-impact aquatic environment. Instruction includes exercises designed to improve cardiovascular endurance, muscular strength, and flexibility. Students need not be competent swimmers to participate in class. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

Biological Sciences

BIOL 100 INTRODUCTION TO THE LIFE SCIENCES

Study of the nature of the physical and chemical aspects of life, the concepts of cellular biology, life as it exists on earth today, plant and animal interrelationships and interdependencies, and the role of humans in the world of living things. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B2

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

BIOL 110 PRINCIPLES OF BIOLOGY

This introductory course addresses the biological perspective and scientific method, the chemical and cellular bases of life, cellular transport and energetics, reproduction, heredity, classification of organisms and their evolution, plant and animal physiology, and ecology. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B2, B3

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

BIOL 130 HUMAN BIOLOGY

Study of biological principles using the human body as a model. Topics are structure and function of major organ systems and some common disorders. Heredity, evolution, and human ecological roles are also discussed. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area B2

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

BIOL 132 HUMAN BIOLOGY LABORATORY

Laboratory exercises concerning mammalian anatomy and physiology and using the scientific method to analyze and



interpret data and then draw appropriate conclusions. This course is a supplement to BIOL 130 Human Biology. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in BIOL 130

AA/AS Degree Requirements: Area B3 - only if BIOL 130 is successfully completed prior to or concurrently with BIOL 132

Transfer Credit: CSU (CSU GE Area B3 - only if BIOL 130 is successfully completed prior to or concurrently with BIOL 132), UC (IGETC Area 5C*)

BIOL 133 EMERGING INFECTIOUS DISEASES

This course studies the major scientific principles behind historic and contemporary pandemics, including smallpox, tuberculosis, AIDS, Ebola, and COVID. It embraces interdisciplinary learning, blending microbiology, epidemiology, and public health. Students use scientific method and experimental methodology to investigate microbial pathogens and study how they interact with their hosts to cause disease. Complex challenges of the modern world, such as antimicrobial resistance, climate change, globalization, and urbanization, drive their emergence. Through systematic questioning, critical thinking, and assessment, students analyze global solutions for future pandemics, cultivating adaptability and resilience. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

BIOL 225 BIOLOGY OF ORGANISMS

Designed for biology majors, this course focuses on principles of evolutionary theory, classification of organisms, and their phylogenetic relationships. Emphasis is on physiology and structures of representative plants and animals. Topics include development, behavioral biology, ecology, and population genetics. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: Successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B2, B3

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

C-ID: BIOL 140; BIOL 135 S (both BIOL 225 + 230)

BIOL 230 CELL AND MOLECULAR BIOLOGY

This course is designed for biology majors and is an introduction to life functions at the cellular and molecular levels. Students learn about cellular structure and the macromolecular architecture of the cell, the functional processes of cellular energetics, metabolic regulation, photochemical activities, reproduction, molecular and Mendelian genetics, regulation of gene expression, and methods of recombinant DNA technology. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: CHEM 210 and BIOL 210, or 215 (offered at Skyline College), or 220 (offered at College of San Mateo), or 225.

AA/AS Degree Requirements: Area B2, B3

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

C-ID: BIOL 190; BIOL 135 S (both BIOL 225 + 230)

BIOL 240 GENERAL MICROBIOLOGY

This course introduces microorganisms in nature: their cellular and molecular structure and functions, metabolisms, genetics, gene regulation, and techniques and procedures used by microbiologists. Emphasis is on microbes that play important roles in human daily life, especially those that cause disease and impact the environment. Laboratory emphasizes isolation, cultivation, and identification of bacteria. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: BIOL 110 or BIOL 130 and BIOL 132 or BIOL 210 or 215 (offered at Skyline College), or 220 (offered at College of San Mateo) or BIOL 225 or BIOL 230 or BIOL 250 or BIOL 260 and CHEM 192 or CHEM 210 or CHEM 410 or equivalent (any college level biology course with a lab and any college level chemistry course with a lab).

AA/AS Degree Requirements: Area B2, B3

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



BIOL 250 HUMAN ANATOMY

Students learn the macroscopic and microscopic structure of the human body organ systems through lecture and laboratory study of models and prosected human cadavers. This course is intended for students in kinesiology, nursing, radiologic technology, respiratory therapy, surgical technology, and other allied health majors. This course is an elective for pre-dental, pre-medical and pre-veterinary students. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: BIOL 100 or BIOL 101 (offered at Skyline) or BIOL 110 or BIOL 130

AA/AS Degree Requirements: Area B2, B3

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

C-ID: BIOL 110 B

BIOL 260 HUMAN PHYSIOLOGY

Students learn through lecture and laboratory experiences how human organ systems integrate functions to maintain homeostasis and to regulate change and growth processes. This course is intended for students in kinesiology, nursing, radiologic technology, respiratory therapy, and for those in related fields such as psychology. This course is an elective for pre-dental and pre-medical students. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: BIOL 250 and CHEM 192 or CHEM 210 or CHEM 410

AA/AS Degree Requirements: Area B2, B3

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

C-ID: BIOL 120 B

BIOL 310 NUTRITION

Comprehensive introduction to scientific principles of nutrition and the interrelationships of metabolism; nutrient functions, structure and food sources; health consequences of nutrient excesses, deficiencies and diet related chronic diseases. Emphasis is placed on evaluating the nutrient content of foods, applying information to personal diet, and using reference tools. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area E1

Transfer Credit: CSU (CSU GE Area E1), UC

C-ID: NUTR 110

BIOL 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Business

BUS. 100 INTRODUCTION TO BUSINESS

Introduction to American business in the global environment providing an overview of economics, ethics, management, marketing, operations, information management, accounting, and finance. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC

C-ID: BUS 110

BUS. 101 HUMAN RELATIONS IN THE WORKPLACE

This course reviews the behavioral science principles used to understand organizational behavior and interpersonal relations. Topics include self-knowledge, perception, self-image, self-management, communications, motivation, conflict resolution, leadership, diversity, ethical choices, and their effects on today's multicultural and highly diverse organizational and social groups. Human relations competencies are developed through theoretical knowledge and group scenarios. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework



AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC

BUS. 103 INTRODUCTION TO BUSINESS INFORMATION SYSTEMS

An introduction to computer systems and software applications and their impact on the business environment. Topics include computer architecture, hardware, software, computer terminology and theory. Students use software applications as problem solving tools for business projects. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

C-ID: BUS 140

BUS. 113 PERSONAL FINANCE

This course in personal finance leads students toward financial education and enables students to obtain the foundation for a lifelong understanding of the basics of finance including money management, tax planning, investing, and retirement planning. Students learn to apply quantitative and computational methods to help them understand the basis for financial literacy. Emphasis is placed on learning the fundamental concepts of everyday finance with a hands-on approach. Instruction is based on the analysis of specific financial situations and enables students to synthesize financial documents and reports. Quantitative reasoning is emphasized for the students so that they develop their problem-solving skills. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area A3; Math Competency

Transfer Credit: CSU (CSU GE Area B4), UC

BUS. 125 INTERNATIONAL BUSINESS

Introduction to the theories and practices of international business. Various environmental, economic, political, and social constraints on doing business abroad are explored. Topics include: political economy of international trade and investment, global monetary system, foreign market analysis, and firms' operational strategy; management issues and challenges. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100 or Eligibility for ENGL 105

Transfer Credit: CSU, UC*

BUS. 150 ENTREPRENEURSHIP: SMALL BUSINESS MANAGEMENT

A practical, real-world approach to conceiving, planning, organizing, and managing a small business. Provides the tools to achieve optimal benefits from limited resources and explains how to plan for growth, succession, or closing of a business. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

BUS. 180 MARKETING

This course is an introduction to marketing and sales techniques used in business. Students learn about the "four P's" of marketing (Product, Price, Place, Promotion), market segmentation, target markets, market research, marketing budgets, and the marketing plan. Internet tools for small business marketing are also included, such as social networks, blogging, images, video, and websites. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

BUS. 201 BUSINESS LAW

Introduction to law applied in business environments. Topics include the Constitution, other legal sources, legal systems, enforcement agencies, contracts, crimes, torts, types of business formation, and employment law. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

C-ID: BUS 125

BUS. 230 INTERNATIONAL MARKETING

Survey course outlining the major dimensions of the global business environment while providing a set of conceptual and analytical tools to successfully apply the "4 P's" (product, price, place and promotion) to global marketing. Review global economic, political-legal, and



cultural environmental factors. Global market research and data sources are explored. Other topics included in this course are foreign market selection, foreign market entry, supply chain management, international pricing, and global marketing of services. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

BUS. 401 BUSINESS COMMUNICATIONS

An overview of effective business communication skills and their direct relationship to workplace success. Emphasis is placed on the planning, organizing, composing, and revising of business documents such as letters, memos, reports, and emails. Presentation skills, professional behavior in the workplace, and current communication technologies are included with an emphasis on real world problem solving. Digital communication topics include presentation software, emails, business-relevant social media, and mobile technologies. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 100 or ENGL 105

Transfer Credit: CSU

C-ID: BUS 115

BUS. 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Career and Personal Development

CRER 110 HONORS COLLOQUIUM IN CAREER AND PERSONAL DEVELOPMENT: TRANSFER ESSENTIALS AND PLANNING

Essential information about transferring to a four-year university. Includes university visits and exploration; transfer planning, policies, and process; academic requirements; and transfer tools and services. Students examine their life plan and achievements to develop strong personal statements; assess costs and funding resources; and learn about how changes in educational policies and regulations may affect their educational plans. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU, UC

CRER 127 CAREER CHOICES II: JOB SEARCH

Focuses on job search preparation. Topics include: job market trends, resume, networking, marketing yourself, gathering information, preparing for the interview, common interview questions, successful interview strategies and follow-up actions. Students will practice and receive guidance on the major stages of a job or internship search. *Pass/No Pass Only. Degree Credit.*

Units: 0.5

Hours/semester: 8-9 Lecture; 16-18 Homework

Transfer Credit: CSU

CRER 137 LIFE AND CAREER PLANNING

Provides a comprehensive approach to life and career planning. Topics include self-assessment (values, skills, personality and interests), and an analysis of career development over the life span. An intensive career investigation that encompasses decision-making, goal-setting, job search strategies, resume writing and interviewing skills. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area E1

Transfer Credit: CSU (CSU GE Area E1), UC



CRER 300 INTRODUCTION TO SCHOLARSHIPS

Introduces students to scholarship and financial aid opportunities at the local, state, and national levels. Learn research techniques and utilize publications, software, internet sites, and community resources. Emphasis on development of a personal organizational system to manage the process of the scholarship search. Identify scholarships that meet personal criteria. Personal statements, interview techniques, resumes, organization and time management are also covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Transfer Credit: CSU

CRER 401 COLLEGE SUCCESS

Provides students with essential tools, skills, and information including college policies, procedures, educational requirements, and college programs/support services. This course also assists students in time management, setting goals, decision-making skills, and other strategies for success. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU, UC

CRER 430 CAREER ASSESSMENT

Designed to help individuals define career and/or college major alternatives. Vocational interests, skills, and values instruments are given and results interpreted. *Pass/No Pass Only. Degree Credit.*

Units: 0.5

Hours/semester: 24-27 Lab

Transfer Credit: CSU

CRER 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Chemistry**CHEM 114 SURVEY OF CHEMISTRY AND PHYSICS**

Equivalent to PHYS 114. A conceptual survey of physical science (physics and chemistry) intended for non-science majors at the General Education level. A general discussion of the scientific method and techniques are followed by physics, chemistry, and integrated topics. The laboratory portion covers a hands-on exploration of phenomena discussed in lecture. The physics component of the course discusses motion, force, energy, electricity and magnetism, waves and light. The chemistry component of the course focuses on chemicals and reactions common in everyday life. Concepts relating to the nature and interactions of atoms, ions, and molecules are presented. Students also learn to use and evaluate information presented on product labels, in advertisements, and online. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC* (IGETC Area 5A*)

C-ID: CHEM 140

CHEM 192 ELEMENTARY CHEMISTRY

Comprehensive introductory chemistry course covering basic concepts, theories and laws with emphasis on reasoning and problem solving skills. Topics include but are not limited to chemical nomenclature, stoichiometry, electron configuration, atomic orbitals, molecular geometry and bonding. The laboratory component of this course introduces students to both qualitative techniques and quantitative techniques appropriate for data collection, manipulation and analysis of a variety of chemical systems. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable.



AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC* (IGETC Area 5A*, 5C)

C-ID: CHEM 101

CHEM 210 GENERAL CHEMISTRY I

This course is the first half of a two-semester sequence in general chemistry intended for students pursuing majors in physical sciences, biological sciences and engineering. The topics include atomic theory, stoichiometry, chemical bonding, thermochemistry, periodicity, molecular geometry, gas laws, solution stoichiometry, intermolecular forces and selected topics covering redox and acid-base reactions. The laboratory program includes gravimetric, colorimetric, and selected volumetric methods of analysis. Students are introduced to spreadsheet and graphical analysis of laboratory data and molecular modeling, and perform a variety of computer-interfaced experiments. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: Successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

Recommended: Any Preparation for Chemistry course or other measures that demonstrate proficiency in general science and preparation for study of college chemistry. This includes completion of high school chemistry with a grade of C or better.

AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 110; CHEM 120S (both CHEM 210 & 220 must be taken)

CHEM 220 GENERAL CHEMISTRY II

This course is the continuation of CHEM 210 and is intended for students pursuing majors in physical sciences, biological sciences and engineering. The topics discussed include properties of solutions, kinetics, equilibrium, acid-base equilibria, thermodynamics, spontaneity, electrochemistry, nuclear reactions, and the chemistry of complex ions. The laboratory program extends the use of spreadsheet, graphical analysis and computer interfaced experimentation in acid-base titrations, rates of reactions, electrochemistry and volumetric analysis. A brief qualitative analysis scheme is also carried out in the laboratory program. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: CHEM 210 or equivalent

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 120S (both CHEM 210 & 220 must be taken)

CHEM 231 ORGANIC CHEMISTRY I

Introduction to the chemistry of hydrocarbons with emphasis on structure and reactivity of alkanes, alkenes, alkynes, alkyl halides, and conjugated systems. Mechanisms, stereochemistry and spectroscopy are an integral part of the course. Basic synthesis, separation, purification and spectroscopic techniques are introduced in the laboratory. Designed as the first semester of a one-year organic chemistry sequence. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: CHEM 220

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 150; CHEM 160S (both CHEM 231 + 232)

CHEM 232 ORGANIC CHEMISTRY II

This course is a continuation of CHEM 231. It introduces the chemistry of aromatic compounds, aldehydes, ketones, carboxylic acids, carbohydrates, lipids, amino acids and proteins with emphasis on synthesis and reaction mechanisms. Laboratory work emphasizes techniques for the synthesis, purification and identification of organic compounds by spectroscopic methods. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: CHEM 231

AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 160S (both CHEM 231 + 232)



CHEM 410 CHEMISTRY FOR HEALTH SCIENCES

A survey of basic concepts in general, organic and biological chemistry relevant to the allied health science fields including nursing, radiological technology, respiratory therapy, etc. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC

CHEM 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Communication Studies**COMM 110 PUBLIC SPEAKING**

A practical and theoretical introduction to the principles of public speaking and a forum for developing public speaking skills. The course covers researching, analyzing, and presenting perspectives on critical issues as well as the organization, composition, presentation, and evaluation of informative and persuasive speeches. Critical thinking and listening skills are developed through speaker and audience analysis. Speeches are delivered in both extemporaneous and prepared modes. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area A1

Transfer Credit: CSU (CSU GE Area A1), UC (IGETC Area 1C)

C-ID: COMM 110

COMM 127 ARGUMENTATION AND DEBATE

This course develops methods of critical inquiry and advocacy and provides foundational knowledge and practice of public speaking. Identifying fallacies in reasoning and language, testing evidence and evidence sources, advancing a reasoned position, and defending and refuting arguments. Includes researching and analyzing significant social issues, propositions, political issues; and executing presentations and evaluations of oral and written arguments. Course covers how, within a democratic society, to communicate ideas using informative and persuasive evidence through written and oral discourse. Adapting argumentation language sensitive to diversity, equity, inclusion, belonging, and accessibility. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area A1

Transfer Credit: CSU (CSU GE Area A1), UC (IGETC Area 1C)

C-ID: COMM 120

COMM 130 INTERPERSONAL COMMUNICATION

Introduction to verbal and nonverbal communication within personal and professional relationships. The course focuses on theoretical foundations and practical considerations of behaviors as well as the role interpersonal communication plays in the formation and maintenance of identity. Well-prepared faculty-supervised presentations are required. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area A1

Transfer Credit: CSU (CSU GE Area A1), UC (IGETC Area 1C)

C-ID: COMM 130

COMM 140 SMALL GROUP COMMUNICATION

Explores current principles and theories of various types of group communication, examining group development, groups tasks and roles, group processes, and the role of collaboration in critical thinking. Students interact in a variety of group projects, exploring their role within groups, leadership, diversity in groups, problem solving, conflict management and decision making. Oral presentations are required. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.



AA/AS Degree Requirements: Area A1

Transfer Credit: CSU (CSU GE Area A1), UC (IGETC Area 1C)

C-ID: COMM 140

COMM 150 INTERCULTURAL COMMUNICATION

Examines theory and knowledge of effective communication within and between cultures. Provides for the development of a more global communication perspective and greater appreciation of other cultures through increased awareness of, and sensitivity to different cultural viewpoints influenced by variables including language, verbal and nonverbal communication, and cultural values. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: COMM 150

COMM 180 INTRODUCTION TO COMMUNICATION STUDIES

A survey of the discipline of communication studies with emphasis on multiple epistemological, theoretical, and methodological issues relevant to the systematic inquiry and pursuit of knowledge about human communication. This course explores the basic history, assumptions, principles, processes, variables, methods, and specializations of human communication. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: COMM 180

COMM 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a

given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Computer Business Office Technology

CBOT 415 BEGINNING COMPUTER KEYBOARDING

An overview of correct keyboarding techniques using the alphabetic and numeric keys as well as the numeric keypad on the computer. Computer software is used to aid in developing a minimum keyboarding speed of 20 words per minute. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Transfer Credit: CSU

C-ID: BSOT 110 X

CBOT 417 SKILL BUILDING

This course provides Individualized instruction to develop speed, technique, and accuracy in touch typing. The course uses diagnostic software to analyze students' strokes and prescribe remediation drills. Students practice their keyboarding skills on business-related documents. *Pass/No Pass Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: Completion of, or concurrent enrollment in, CBOT 415 or equivalent.

Transfer Credit: CSU

C-ID: BSOT 120 X

CBOT 432 INTRODUCTION TO COMPUTER APPLICATIONS

Introduction to file, folder, and database management; word processing; spreadsheets; and presentation software. The course covers creating, formatting and organizing documents and spreadsheets; using functions and formulas; building simple databases to organize information; and transferring files between applications, all on the Windows platform. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3



Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

CBOT 435 SPREADSHEETS

Building worksheets using formulas and functions to solve business problems. The course covers formatting; creating formulas including nested formulas; applying mixed, relative and absolute references; building charts; using multiple worksheets, solver, and data tables; using and analyzing list data; using what-if analysis, scenario management; and creating workbooks. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

C-ID: BSOT 112 X; BSOT 122 X

CBOT 448 USING MICROSOFT WINDOWS

Students learn the Windows operating system, and work with programs and file management. The course includes how to manage files and folders, maintain the computer, manage hardware, and customize Windows. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Transfer Credit: CSU

CBOT 457 USING POWERPOINT IN BUSINESS

Learn to create and edit presentations; insert pictures, charts, tables, and SmartArt Graphics; create and customize themes; prepare for slide show delivery; customize images; use Slide Master; work with advanced animation, hyperlinks, and action buttons; and integrate contents from other sources. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

CBOT 470 ADVANCED SPREADSHEETS

Provides instruction in the application of spreadsheet functions such as pivot tables, forms, macros, and advanced functions for business applications. Additional instruction in the use of specialized text and database functions. Other topics include the use of templates, managing workbook changes, and comparing and merging workbooks. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Recommended: CBOT 435

Transfer Credit: CSU

CBOT 472 BEGINNING WORD PROCESSING

Covers the basic Word skills of creating, editing, and formatting documents; working with reports and multi-page documents; using tables, columns, and graphics; using templates and Mail Merge; and using custom styles and Building Blocks. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Transfer Credit: CSU

CBOT 474 INTERMEDIATE WORD PROCESSING

Work with tables, pictures and shapes; edit and review documents using comments and track changes; learn how to integrate other office applications with Word; use mail merge, templates, and macros; use content controls to create forms; master documents, and desktop publishing and graphics features. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: Completion of, or concurrent enrollment in CBOT 472 or equivalent.

Transfer Credit: CSU

CBOT 475 USING OUTLOOK

Outlook is a personal information management program that helps organize a wide range of tasks within an office environment. Includes sending and receiving messages and managing the Inbox, scheduling appointments and meetings using the Calendar, creating and managing tasks and journal entries using Outlook with other Office applications and using Outlook with the Internet. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Transfer Credit: CSU

C-ID: BSOT 106 X

CBOT 476 ADOBE ACROBAT

Learn to create, convert, store, and transport documents from various software programs using Adobe Acrobat.



The course covers Adobe Reader, security and password protection, consolidation of PDF files into one Adobe PDF file, application of final edits and modifications to enhance those files. Also, learn to create online documents and interactive forms. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Recommended: Working knowledge of using a computer and its operating system.

Transfer Credit: CSU

CBOT 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Computer Science

CIS 118 INTRODUCTION TO COMPUTER SCIENCE

Introduction to computer hardware and the programming commands to control them. Topics Include: hardware, operating systems and the software development life cycle which includes design, development, documentation, the importance of review, principles of testing and maintenance; algorithm development, procedural and structured programming with C/C++; data types, variables, expressions, selection and repetition structures, functions passing by value and reference, recursion, all about arrays, file input and output(I/O), error handling, and classes. This course gives students basic computer science concepts and skills. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Transfer Credit: CSU, UC

C-ID: COMP 112

CIS 122 INTRODUCTION TO PROGRAMMING: PYTHON

Designed to teach computer programming with an introduction to Python Programming in interesting, relevant, and practical contexts. Focus is on hands-on Python programming skills, problem-solving using algorithmic thinking, abstraction, implementing an algorithm to executable code, debugging and testing software programs. Fundamental programming constructs such as variables, data types, selection, iteration, functions, data structures, file I/O, OOP and other core concepts are covered. Applications focus on computational techniques to understand data analysis, basic encryption algorithms, matrix manipulation, sorting and searching algorithms, basic game design, and more. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Basic knowledge of computer usage.

Transfer Credit: CSU, UC

C-ID: COMP 112

CIS 242 COMPUTER ARCHITECTURE AND ASSEMBLY LANGUAGE

Covers the basics of integrated circuit technology, digital logic gates and circuit design, computer organization and industry standard computer architecture (ISA), microcode, number systems and data representation, machine languages, assembly languages and programming, operating systems, high-level languages and programming, and the application abstraction levels. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100. CIS 118

Transfer Credit: CSU, UC

C-ID: COMP 142

CIS 250 INTRODUCTION TO OBJECT ORIENTED PROGRAMMING: C++

Introduction to programming and software engineering for computer science majors and computer professionals. A systematic approach to the design, implementation, and management of robust C++ computer programs. Course emphasizes topics such as Object Oriented programming design, templates, big O, trees, programming documentation, testing and debugging techniques. This course conforms to the ACM CS1 standards. *Letter Grade Only. Degree Credit.*



Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: CIS 118

Transfer Credit: CSU, UC

C-ID: COMP 122

CIS 252 INTRODUCTION TO DATA STRUCTURES - C++

Design and implementation of larger projects using object-oriented software engineering principles with emphasis on definition and use of data structures including: arrays, stacks, queues, linked lists, trees, hash tables, dictionaries, sets and graphs. Standard methods are used for sorting, searching and analyzing the relative efficiency of algorithms (Big-O notation). This course conforms to the ACM CS2 standards. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: CIS 250

Transfer Credit: CSU, UC

C-ID: COMP 132

CIS 262 DISCRETE MATHEMATICS FOR COMPUTER SCIENCE

Covers topics in discrete mathematics with emphasis on computer science applications. Includes algorithms, Master's theorem, base and number representation, logic, sets and category theory, relations, functions, induction, recursion, Boolean algebra and digital circuits, combinatorics, Pascal's Identity, permutations and combinations, counting, probability, Bayes' Theorem, Statistics, algebraic structures, Binomial theorem, directed and undirected graphs, elementary number theory, discrete probability, proof techniques, induction, pigeonhole principle, sequences, Fibonacci numbers and computational complexity. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CIS 250 or CIS 284 and successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

Transfer Credit: CSU, UC

C-ID: COMP 152

CIS 284 INTRODUCTION TO OBJECT ORIENTED PROGRAMMING- JAVA

Introduction to programming and software engineering for computer science majors and computer professionals. A systematic approach to the design, implementation, and management of robust Java computer programs. Course emphasizes object oriented programming design, programming documentation, testing and debugging techniques. This course conforms to the ACM CS1 standards. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: CIS 118

Transfer Credit: CSU, UC

C-ID: COMP 122

CIS 286 INTRODUCTION TO DATA STRUCTURES - JAVA

Design and implementation of larger projects using object-oriented software engineering principles with emphasis on definition and use of data structures including arrays, stacks, queues, linked lists, n-trees, binary trees, hash tables, dictionaries, sets and graphs using JAVA. Standard methods are used for sorting, searching, analyzing the relative efficiency of algorithms (Big-O notation) and recursion. This course conforms to the ACM CS2 standards. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CIS 284 or equivalent experience programming in JAVA.

Transfer Credit: CSU, UC

C-ID: COMP 132

CIS 294 INTRODUCTION TO OBJECT ORIENTED PROGRAMMING: SWIFT

Introduction to programming and software engineering for computer science majors and computer professionals. A systematic approach to the design, implementation, and management of robust Swift computer programs. Course emphasizes Object Oriented programming design, programming documentation, testing and debugging techniques. This course conforms to the ACM CS1 standards. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework



Recommended: CIS 118

Transfer Credit: CSU, UC

CIS 295 INTRODUCTION TO CLOUD COMPUTING

An introduction to Amazon Web Services (AWS) and cloud computing, which shift information systems from physical infrastructure to the internet. Explains how to evaluate business and technical benefits of AWS and cloud computing and cloud applications. Includes an analysis of storage, servers, and software applications, as well as a discussion of job opportunities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

CIS 296 DATABASE ESSENTIALS IN THE CLOUD

Amazon Web Services (AWS) and cloud database management, which support multiple data storage options. Definitions, operations, and scaling of SQL (Structured Query Language) and noSQL data storage. Considers factors to balance and design data storage. Principles are applied by performing exercises using both relational and non-relational database approaches. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

CIS 297 AMAZON WEB SERVICES (AWS) AND CLOUD COMPUTE ENGINES

Explore how Amazon Web Services (AWS) and other cloud computing systems are built using a common set of core technologies, algorithms, and design principles centered around distributed systems. Students use various cloud platforms to provision, load-balance and scale their applications. The course discusses, from a developer perspective, the most important reasons for using Amazon Web Services (AWS) and other cloud computing services and examines the underlying design principles of scalable cloud applications. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Corequisites: Completion of, or concurrent enrollment in, CIS 284

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

CIS 298 AMAZON WEB SERVICES (AWS) AND CLOUD SECURITY

Protection of the confidentiality, integrity and availability of computing systems and data. Uses of redundant and layered controls, continuous validation and testing, and automation to ensure that the Amazon Web Services (AWS) and cloud infrastructures are continuously monitored and protected. Examination of shared responsibility models. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CIS 295

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

CIS 321 IPHONE PROGRAMMING: SWIFT

Introduction to programming the iPhone or iPad. Introduction to programming concepts, variables, assignments, selection, repetition, functions, object-oriented classes with their outlets and actions, Swift syntax, CocoaTouch environment, XCode IDE and the iPhone SDK to write original GUI programs for the iPhone, iPod Touch or iPad. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: CIS 118, and CIS 250 or CIS 284, or previous experience in object-oriented programming.

Transfer Credit: CSU, UC

CIS 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU



Dance

DANC 100 DANCE APPRECIATION

An overview of dance history, beginning with classical era, folk and ethnic dance. This course surveys the development of Modern, Ballet, Jazz and other dance forms through video analysis. NOTE: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

DANC 115.1 MEXICAN FOLKLORIC DANCE I

Beginning level of the cultural dances of México. Students learn the skills of dance while improving their technique, poise, self-confidence and creative ability as well as deepening their understanding of and appreciation for the rich and colorful heritage that each dance represents. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 115.2 MEXICAN FOLKLORIC DANCE II

Continuation of DANC 115.1 Covers the Intermediate level of the cultural dances of México. Students learn the skills of dance while improving their technique, poise, self-confidence and creative ability as well as deepening their understanding of and appreciation for the rich and colorful heritage that each dance represents. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 115.1 or demonstrated skill.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 115.3 MEXICAN FOLKLORIC DANCE III

Continuation of DANC 115.2. Covers the Intermediate to advanced level of the cultural dances of México. Students learn the skills of dance while improving their technique, poise, self-confidence and creative ability as well as

deepening their understanding of and appreciation for the rich and colorful heritage that each dance represents. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 115.2 or demonstrated skill.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 115.4 MEXICAN FOLKLORIC DANCE IV

Continuation of DANC 115.3. Covers the Advanced level of the cultural dances of México. Students learn the skills of dance while improving their technique, poise, self-confidence and creative ability as well as deepening their understanding of and appreciation for the rich and colorful heritage that each dance represents. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 115.3 or demonstrated skill.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 117.1 TAP DANCE I

This course covers beginning tap dance technique, tap vocabulary, dance combinations and rhythmic patterns while developing musicality and basic performance skills. Opportunities are available to perform, in order to better appreciate tap dance. Choreography and improvisational group projects/presentations are developed over the course of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 117.2 TAP DANCE II

Continuation of DANC 117.1. This course covers intermediate tap dance technique, tap vocabulary, dance combinations and rhythmic patterns while developing musicality and basic performance skills. Opportunities are available to perform, in order to better appreciate tap dance. Choreography and improvisational group projects/presentations are developed over the course of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*



Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 117.1 or demonstrated skill level.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 117.3 TAP DANCE III

Continuation of DANC 117.2. This course covers intermediate to advanced tap dance technique, tap vocabulary, dance combinations and rhythmic patterns while developing musicality and basic performance skills. Opportunities are available to perform, in order to better appreciate tap dance. Choreography and improvisational group projects/presentations are developed over the course of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 117.2 or demonstrated skill level.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 117.4 TAP DANCE IV

Continuation of DANC 117.3. This course covers advanced tap dance technique, tap vocabulary, dance combinations and rhythmic patterns while developing musicality and basic performance skills. Opportunities are available to perform, in order to better appreciate tap dance. Choreography and improvisational group projects/presentations are developed over the course of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 117.3 or demonstrated skill level.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 121.1 CONTEMPORARY MODERN DANCE I

Beginning level instruction in the Contemporary Modern Dance style, including warm-up and floor movement with an emphasis on proper techniques, creativity, style and self expression. Students learn short dance phrases and will be expected to choreograph and perform a modern dance by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 121.2 CONTEMPORARY MODERN DANCE II

Intermediate level instruction in the Contemporary Modern Dance style, including warm-up and floor movement with an emphasis on proper techniques, creativity, style and self expression. Students learn short dance phrases and are expected to choreograph and perform a modern dance by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 121 or DANC 121.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 121.3 CONTEMPORARY MODERN DANCE III

Advanced intermediate level instruction in the Contemporary Modern Dance style, including warm-up and floor movement with an emphasis on proper techniques, creativity, style and self expression. Students learn short dance phrases and are expected to choreograph and perform a modern dance by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 121.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 121.4 CONTEMPORARY MODERN DANCE IV

Advanced level instruction in the Contemporary Modern Dance style, including warm-up and floor movement with an emphasis on proper techniques, creativity, style and self expression. Students learn short dance phrases and are expected to choreograph and perform a modern dance by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 121.3

AA/AS Degree Requirements: Area E2; Physical Education



Transfer Credit: CSU (CSU GE Area E2), UC

DANC 125.1 SALSA I

Beginning techniques of partner salsa dancing. Proper body placement, lead and follow techniques, and stylization applied to dance patterns. Shine steps are covered. Dance etiquette and rhythm of salsa music covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 125.2 SALSA II

Continuation of DANC 125.1. A thorough review of Salsa I is provided. Intermediate salsa patterns including more complex turns, patterns, and shines are introduced. Greater emphasis on the development of dance stylization, timing, and safety. Student choreography and presentation is encouraged. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 125.1 or demonstrated skill.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 125.3 SALSA III

Continuation of DANC 125.2. Includes a quick review of DANC 125.1 and a thorough review of DANC 125.2. More complex patterns are demonstrated and practiced, with emphasis on dance pattern design at the Intermediate/Advanced level. Student choreography and "learning by teaching" is required. Includes emphasis on partner dancing safety and core body awareness, and improving balance, strength, and flexibility in preparation for advanced patterns and stage performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 125.2 or demonstrated ability.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 125.4 SALSA IV

Continuation of DANC 125.3. Designed for the advanced student who has already demonstrated Intermediate/

Advanced ability in lead/follow technique, dance pattern complexity, and proper timing. Longer and more difficult dance combinations are covered without introduction or emphasis of the basics. Choreography of intermediate/advanced shines and partner patterns required. Student learning by teaching required. Performance required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 125.3 or demonstrated ability.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 130.1 JAZZ DANCE I

Covers various movement forms with an emphasis on rhythm, style and proper techniques. Students learn a variety of jazz phrases and are expected to choreograph and perform a jazz dance at the introductory level by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 130.2 JAZZ DANCE II

Continuation of DANC 130.1. This course covers various movement forms with an emphasis on rhythm, style and proper techniques. Students learn a variety of jazz phrases and are expected to choreograph and perform a jazz dance at the intermediate level by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 130.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 130.3 JAZZ DANCE III

Continuation of DANC 130.2. This course covers various movement forms with an emphasis on rhythm, style and proper techniques. Students learn a variety of jazz phrases and are expected to choreograph and perform a jazz dance at the advanced intermediate level by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1



Hours/semester: 48-54 Lab

Prerequisites: DANC 130.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 130.4 JAZZ DANCE IV

Continuation of DANC 130.3. This course covers various movement forms with an emphasis on rhythm, style and proper techniques. Students learn a variety of jazz phrases and are expected to choreograph and perform a jazz dance at the advanced level by the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 130.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 140.1 BALLET I

Beginning barre, floor technique and movement fundamentals with emphasis on body control, form and special patterns. Students learn a variety of dance phrases and are expected to perform a ballet dance at the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 140.2 BALLET II

Intermediate barre, floor technique and movement fundamentals with emphasis on body control, form and special patterns. Students learn a variety of dance phrases and are expected to perform a ballet dance at the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

Prerequisites: DANC 140.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 140.3 BALLET III

Advanced intermediate barre, floor technique and movement fundamentals with emphasis on body control, form and special patterns. Students learn a variety of dance phrases and are expected to perform a ballet dance at the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

Prerequisites: DANC 140.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 140.4 BALLET IV

Advanced barre, floor technique and movement fundamentals with emphasis on body control, form and special patterns. Students learn a variety of dance phrases and are expected to perform a ballet dance at the end of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

Prerequisites: DANC 140.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 150.1 HIP HOP I

Provides students with beginning practical experience in current hip-hop dance trends and techniques. The class covers terminology and a brief history of hip-hop dance. Students learn and perform beginning hip-hop dance steps. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 150.2 HIP HOP II

Continuation of DANC 150.1. Intermediate dance techniques and movement which include direction and rhythmic changes. Limited student choreography which includes a variety of intermediate hip-hop phrases is also included. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab



Prerequisites: DANC 150.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 150.3 HIP HOP III

Continuation of DANC 150.2. Intermediate/advanced dance techniques, routines and group presentations. Emphasis on individual student and group choreography. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 150.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 150.4 HIP HOP IV

Continuation of DANC 150.3. Advanced dance techniques, and movement which include level changes, rhythmic and direction changes. Choreography and improvisational group projects/presentations which include exploring performance aspect of hip-hop dance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 150.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 151.1 SOCIAL DANCE I

The basic steps of social ballroom dances are covered. Basic dance vocabulary, technique, body placement, and the relationships between music, rhythm and the dances are emphasized throughout the course. Students are instructed in lead and follow techniques and dance etiquette. The basic patterns of the following social ballroom dances are taught: Waltz, East Coast Swing, Cha Cha Cha, Rumba, Foxtrot, Merengue and Tango. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 151.2 SOCIAL DANCE II

Continuation of DANC 151.1. Refines the basic skills of social ballroom dances. Emphasis is given to lead and

follow, various techniques, complex steps, varied rhythm and certain dance style. Intermediate level social dance figures are introduced in the following dances: Waltz, East Coast Swing, Cha Cha Cha, Rumba, Foxtrot, Merengue and American Tango. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 151.1 or demonstrated skill.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 151.3 SOCIAL DANCE III

Continuation of DANC 151.2. Refines the intermediate skills of social ballroom dances. Emphasis is given to lead and follow, various techniques, complex steps, varied rhythm and certain dance style. Intermediate/Advanced level social dance figures are introduced in the following dances: Waltz, East Coast Swing, Cha Cha Cha, Rumba, Foxtrot, and American Tango. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 151.2 or demonstrated skill.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 151.4 SOCIAL DANCE IV

Continuation of DANC 151.3. Refines the intermediate/advanced skills of social ballroom dances. Longer and more difficult dance combinations are covered without introduction of, or emphasis on the basics. Specific emphasis is given to the dance style and technique of each dance. Advanced level social dance figures are introduced in the following dances: Waltz, East Coast Swing, Cha Cha Cha, Rumba, Foxtrot, Merengue and American Tango. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 151.3 or demonstrated skill.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 157.1 AFRO CUBAN DANCE FUSION I

Beginning level Afro Cuban dances. Students will integrate Afro Cuban elements into modern social dancing, using the body as a medium for cultural understanding and



community building. Students will gain a foundation of Afro Cuban Folkloric, Rumba, Salsa, Son, ChaChaCha, Conga, Ladies Styling, Mambo and Cabaret, so they are ready to confidently join today's dance community. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 157.2 AFRO CUBAN DANCE FUSION II

Intermediate level Afro Cuban dances. Students will integrate Afro Cuban elements into modern social dancing, using the body as a medium for cultural understanding and community building. Students will gain a foundation of Afro Cuban Folkloric, Rumba, Salsa, Son, ChaChaCha, Conga, Ladies Styling, Mambo and Cabaret, so they are ready to confidently join today's dance community. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

Prerequisites: DANC 157.1

AA/AS Degree Requirements: Area E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 157.3 AFRO CUBAN DANCE FUSION III

Advanced intermediate level Afro Cuban dances. Students will integrate Afro Cuban elements into modern social dancing, using the body as a medium for cultural understanding and community building. Students will gain a foundation of Afro Cuban Folkloric, Rumba, Salsa, Son, ChaChaCha, Conga, Ladies Styling, Mambo and Cabaret, so they are ready to confidently join today's dance community. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

Prerequisites: DANC 157.2

AA/AS Degree Requirements: Area E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 157.4 AFRO CUBAN DANCE FUSION IV

Advanced level Afro Cuban dances. Students will integrate Afro Cuban elements into modern social dancing, using the body as a medium for cultural understanding and community building. Students will gain a foundation of Afro Cuban Folkloric, Rumba, Salsa, Son, ChaChaCha, Conga, Ladies Styling, Mambo and Cabaret, so they are ready to

confidently join today's dance community. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

Prerequisites: DANC 157.3

AA/AS Degree Requirements: Area E2

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 161.1 TANGO ARGENTINO I

This course is designed to introduce students to the essence of beginning level Argentine Tango (the dance of love) as well as basic improvisational skills. Viewing tango as a language, students develop musicality and focus on the connection between partners in order to dance confidently in social settings around the world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 161.2 TANGO ARGENTINO II

Continuation of DANC 161.1. This course is designed to introduce students to the essence of intermediate level Argentine Tango (the dance of love) as well as basic improvisational skills. Viewing tango as a language, students develop musically and focus on the connection between partners in order to dance confidently in social settings around the world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

Prerequisites: DANC 161.1 or demonstrated skill level.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 161.3 TANGO ARGENTINO III

Continuation of DANC 161.2. This course is designed to introduce students to the essence of advanced level Argentine Tango (the dance of love) as well as basic improvisational skills. Viewing tango as a language, students develop musically and focus on the connection between partners in order to dance confidently in social settings around the world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab



Prerequisites: DANC 161.2 or demonstrated skill level.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 161.4 TANGO ARGENTINO IV

Continuation of DANC 161.3. This course is designed to introduce students to the essence of expert level Argentine Tango (the dance of love) as well as basic improvisational skills. Viewing tango as a language, students develop musically and focus on the connection between partners in order to dance confidently in social settings around the world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 or 1

Hours/semester: 24-54 Lab

Prerequisites: DANC 161.3 or demonstrated skill level.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 350.1 CARDIO DANCE I

Beginning level steps, stretches, and toning exercises choreographed to Latin, hip hop, jazz, ballet, modern, popular, and contemporary dance rhythms. Designed to increase cardiovascular health while learning dance movements in a non-competitive environment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 350.2 CARDIO DANCE II

Continuation of DANC 350.1. Intermediate level steps, stretches, and toning exercises choreographed to Latin, hip hop, jazz, ballet, modern, popular, and contemporary dance rhythms. Designed to increase cardiovascular health while learning dance movements in a non-competitive environment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 350.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 350.3 CARDIO DANCE III

Continuation of DANC 350.2. Advanced intermediate level steps, stretches, and toning exercises choreographed to Latin, hip hop, jazz, ballet, modern, popular, and contemporary dance rhythms. Designed to increase cardiovascular health while learning dance movements in a non-competitive environment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 350.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 350.4 CARDIO DANCE IV

Continuation of DANC 350.3. Advanced level steps, stretches, and toning exercises choreographed to Latin, hip hop, jazz, ballet, modern, popular, and contemporary dance rhythms. Designed to increase cardiovascular health while learning dance movements in a non-competitive environment. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 350.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 400.1 DANCE PERFORMANCE AND PRODUCTION I

Beginning level theory and practice in dance composition, evaluation and program production. Students become familiar with all types of choreography principles and stage production. Includes emphasis on a variety of dance forms from traditional Western European to ethnic. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 400.2 DANCE PERFORMANCE AND PRODUCTION II

Intermediate level theory and practice in dance composition, evaluation and program production. Students become familiar with all types of choreography principles and stage production. Includes emphasis on a variety of



dance forms from traditional Western European to ethnic. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 400.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 400.3 DANCE PERFORMANCE AND PRODUCTION III

Advanced Intermediate level theory and practice in dance composition, evaluation and program production. Students become familiar with all types of choreography principles and stage production. Includes emphasis on a variety of dance forms from traditional Western European to ethnic. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 400.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 400.4 DANCE PERFORMANCE AND PRODUCTION IV

Advanced level theory and practice in dance composition, evaluation and program production. Students become familiar with all types of choreography principles and stage production. Includes emphasis on a variety of dance forms from traditional Western European to ethnic. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: DANC 400.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC

DANC 672 WORK EXPERIENCE EDUCATION: INTERNSHIP

Supervised internship in cooperation with private or public sector employers. Designed to apply knowledge and learn new skills, directly related to the student's program of study, outside of the normal classroom environment. Students must attend one orientation which is offered the first three weeks of each semester. One unit of credit will be earned for each 48-54 hours of paid or unpaid work per semester, with a maximum of 6 units per semester. Students may repeat Work Experience courses within the SMCCCD for

credit up to a maximum of 16 total units. The unit limitation applies to any Work Experience Education (any combination of 670, 671 and/or 672 courses) offered within the SMCCCD. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Work Experience

Prerequisites: A minimum of 12 completed units in the occupational discipline.

Transfer Credit: CSU

DANC 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Digital Art and Animation

MART 314 INTRODUCTION TO COMPUTER GRAPHICS

State of the art computer graphics software packages are introduced with respect to print, web and motion graphics. Introduction to typography, graphic layout/design fundamentals, web interface design and animation/motion principles and other computer graphics software applications. Following a fine arts approach, students generate their own creative content for print and/or electronic publication. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU, UC

MART 325 DIGITAL PAINTING

Using digital painting software and drawing tablets, students use digital tools for the artistic expression of the concepts and techniques of traditional painting. Some



painting and computer knowledge desirable. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 48-54 TBA; 48-54 Homework

Transfer Credit: CSU

MART 362 INTRODUCTION TO DIGITAL PHOTOGRAPHY

Introduction to the theory and technology of digital photography. Exploration of the digital camera in both professional and consumer contexts. The course covers photographing, storing photos, transferring and editing images, and optimizing the final output. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU, UC

MART 363 ADVANCED DIGITAL PHOTOGRAPHY

Intermediate to advanced photographic techniques covering the complete cycle of production from image setup to output. Emphasis is placed on developing skills in creating digital photographic imagery for creative and professional expression through a mixture of exercises, lecture, and demonstration. Topics include advanced camera skills, composition, color management, Lightroom and other asset management systems. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: MART 362 or previous experience with raster image editing software (Photoshop or equivalent)

Transfer Credit: CSU, UC

MART 366 COLOR MANAGEMENT AND THEORY

Create a successful color management workflow from digital image to digital print. Understand and use color, calibration, and create profiles to get the desired color output. Topics include pre-press file management, RGB to 4-color ink, paper, output, proofing, and industry standards. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: MART 376 is strongly recommended.

Transfer Credit: CSU

MART 371 USER INTERFACE/USER EXPERIENCE DESIGN

The fundamentals of user-centered interface design for web, mobile devices, and other applications. The course covers user interaction with interfaces, usability, interface associations and aesthetics, and the user experience. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 372 DIGITAL ILLUSTRATION

Using Adobe Illustrator and other digital design software students will develop strategies for content development, visual cohesiveness and graphic production techniques. Topics include design, layout, typography, and color principles, vector graphics versus raster graphics and project preparation for print. The student will create projects ranging from promotional posters and business cards, to bottle labels and restaurant menus. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 374 UX RESEARCH METHODS

Introduction to the essentials of user experience (UX) research. This class teaches the basics of user experience research methodology, planning, and execution with industry-standard tools, including docs, spreadsheets, study administering and data gathering software, prototypes, and presentation slides. Practical application of skills learned to inform product development and UX design are also covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU, UC

MART 376 INTRODUCTION TO DIGITAL IMAGING

An introduction to the theory and technology of digital imaging, this project based course includes assignments covering specific concepts as well as allowing the student



creativity to explore the topic and software. Students work with digital images using digital manipulation and image correction tools software such as Adobe Photoshop® to create digital photographs and imagery. Students' images become part of a basic portfolio. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU, UC

MART 378 DIGITAL PAGE LAYOUT

An introductory course in page layout for graphic design for both print and electronic publication. Through projects and assignments, students integrate sound design principles and digital software skills in the creation of multiple page documents. Both Apple OS and Windows environments are supported. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 379 INTRODUCTION TO DIGITAL ANIMATION

Creating computer-based animation using both traditional and digital 2D animation techniques such as storyboarding and frame-by-frame animation. The course also covers effective graphic user interface for web design and scripting. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 380 ADVANCED DIGITAL ANIMATION

This course utilizes 2D digital animation software as a medium for the development and exploration of computer-based cinematic animations, advanced interactive projects as well as the application of basic scripting principles. The class is project-based and geared towards the creation of interactive, self-contained and optimized applications, both for a web media and offline presentations. Student projects are developed through the integration of rich media such as audio and video with interactive code and advanced animation techniques. Further independent instruction is encouraged through a wide range of sources such as

internet tutorials, books and experimentation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Prerequisites: MART 389 or equivalent

Transfer Credit: CSU

MART 385 CODING FOR DESIGNERS AND ARTISTS

Introduction to writing scripts and code for artists and designers. Using a game engine, students learn the fundamentals of coding by creating interactive animated graphics. Activities include drawing graphics, controlling animation, working with sound, and interacting with user inputs. Coding concepts covered include working with variables and arrays, writing functions, working with loops and logic, creating classes and objects, and translating between different coding languages. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 389 DIGITAL MEDIA CAREERS

Introduction to the digital media job market and employment niches. The class describes digital media and the varied work environments including full time and contract opportunities. Other topics include job search techniques, resume and cover letter writing skills, and searching out professional organizations that align with the student's career goals. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 16-18 TBA; 32-36 Homework

Transfer Credit: CSU

MART 390 PORTFOLIO CREATION

Portfolio creation is the culminating course for those students interested in the various Certificates of Completion, Certificates of Proficiency, and Associate of Arts Degree in Digital Art and Animation. Students develop a portfolio consisting of work accomplished to date. The portfolio may be print-based or web-based following a format appropriate with the student's career/academic goals. The students also include a résumé that is appropriate for their field of interest and learn the skills



necessary to conduct a successful job interview. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 16-18 TBA; 32-36 Homework

Prerequisites: MART 362 or MART 372 or MART 376 or MART 379 or MART 421 or MART 422 or MART 424 or MART 432 or Instructor permission via portfolio review.

Transfer Credit: CSU

MART 392 CONTENT STRATEGY AND UX WRITING

Introduction to the essentials of content strategy and user experience (UX) writing. This class teaches the basics of information architecture, writing for user interfaces, and content management using industry-standard tools such as docs, spreadsheets, design software, and presentation slides. Practical application of skills learned to develop content for user interfaces are also covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU, UC

MART 393 UX DATA VISUALIZATION

This course provides an introduction as well as hands-on experience in data visualization for user experience (UX). It introduces students to the theory and design principles for creating meaningful displays of quantitative and qualitative data to facilitate decision-making and design modifications or choices. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU, UC

MART 394 INTERACTION DESIGN

This course covers the essentials of interaction and visual design principles and how they are applied. Students learn how to evaluate and analyze the uses of interactive media and understand how viewing interactive media on a variety of screen sizes and devices may impact the experience. They also learn how to apply the principles of design and usability when creating interactive content. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU, UC

MART 400 MOTION GRAPHICS

Digital integration of audio, video and motion graphics through the creation of experimental short narrative scenes. Covers preproduction and production techniques, emphasizing editing and compression methods for web or DVD delivery. Successful story-telling through the use of story boarding, camera composition and scene sequencing techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 16-18 TBA; 32-36 Homework

Transfer Credit: CSU

MART 405 STORYBOARD DEVELOPMENT FOR ANIMATION AND INTERACTIVE MEDIA

Introduction to storyboarding and the planning processes of visual storytelling. Translation of concepts such as shot types, continuity, pacing, transitions and sequencing into a visual narrative. Exploration of cinematic vocabulary and storyboard technique in the creation of both personal and professional expression. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 416 DRAWING FOR ANIMATION

Techniques and concepts of drawing for animation. Topics include 2- and 3-point perspective, anatomy (human, animal, and comparative), gesture, quick sketch, and sequential drawing. Emphasis on capturing movement and pose using line. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 417 PRINCIPLES OF ANIMATION

Using paper and pencil, students learn the fundamental principles underlying all quality animation. Techniques like squash and stretch, overlap, follow-through, weight,



arcs, solid dimensional drawing, and appeal are presented. Applying traditional animation skills to applications like Flash, After Effects, and Maya are also included. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 24-27 TBA; 72-81 Homework

Transfer Credit: CSU

MART 418 HISTORY OF ANIMATION

This course is a multicultural and multidisciplinary approach to the production and development of animation throughout history. Material spans the roots of animation before film technology to modern commercial and artistic animated productions. Topics include experimental and traditional animation techniques, an overview of current technologies and the aesthetics and visual styles in different genres. The history of animation is viewed through its social context and impact since its inception, through the past century to the contemporary era. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 16-18 TBA; 32-36 Homework

Transfer Credit: CSU, UC

MART 420 INTRODUCTION TO 3D MODELING AND ANIMATION

Basic concepts of 3D modeling and animation using Autodesk Maya including the production of three-dimensional computer animation and the different approaches to modeling in a 3D environment. Familiarization with both the interface and the production process of 3D animation. Texture mapping, lighting and rendering of simple animation and environments. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: Completion of MART 376 or equivalent.

Transfer Credit: CSU

MART 421 ADVANCED 3D MODELING AND ANIMATION

Continuation of MART 420. Further development of concepts and techniques introduced in MART 420 to establish a solid foundation in storytelling, modeling, animation, texture creation and lighting. Rendering professional final scenes state-of-the-art 3D animation

software such as Autodesk Maya. Also covered is the production process and pipeline used in video game companies and animation studios and the final delivery of projects created for various media. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Prerequisites: MART 420 or equivalent experience

Transfer Credit: CSU

MART 422 INTRODUCTION TO RIGGING

Basic and advanced rigging techniques for 3D models using Autodesk Maya. Students explore character rigging, vertex weighting, control setup, IK/FK switching, on-screen control setup and advanced blend shape techniques. Also introduced will be MEL scripting, creating and using expressions, creating channels and setting up functionality with set driven keys. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Prerequisites: MART 420 or equivalent experience

Transfer Credit: CSU

MART 424 3D ANIMATION FUNDAMENTALS

Fundamental principles of performance animation in 3D animation software. Students will develop skills in conveying weight, understanding timing, the use of arcs in movement, and bringing anthropomorphic characters to life. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: Familiarity with 3D animation tools.

Transfer Credit: CSU

MART 425 ADVANCED 3D ANIMATION

Continuation of concepts and techniques covered in MART 424. The principles of animation are covered in depth as they apply to the 3D environment: bipedal locomotion (walks, runs, gait changes), weight, balance, and character performance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3



Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: Completion of MART 424 is strongly recommended, or approval of instructor via demo reel review.

Transfer Credit: CSU

MART 431 SPECIAL EFFECTS AND COMPOSITING

Techniques for the creation of special effects through digital compositing for film and video. Merging original 2D images such as photographs or other still images generated in Photoshop or Corel Painter with 3D images created in Autodesk Maya. Different output formats and uses for these compositing techniques in diverse industries. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 16-18 TBA; 32-36 Homework

Recommended: Prior experience in After Effects or equivalent.

Transfer Credit: CSU

MART 432 3D ENVIRONMENTS AND HARD SURFACE MODELING

Course covers the creation of 3D worlds and modeling of non-organic forms such as vehicles, surroundings, architecture and mechanical devices as well as developing the look and feel of 3D environments where characters interact. Students learn to use different reference materials and research inspirational resources when generating a world concept. Various rendering techniques and the creative presentation of final work are also covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 16-18 TBA; 32-36 Homework

Recommended: MART 420 or 3D software experience.

Transfer Credit: CSU

MART 441 INTRODUCTION TO VIDEO GAME DESIGN

Introduction to the essentials of game design using industry-standard game engine, spreadsheets, presentation slides, photo editing, 3D modeling, and reference art to convey game design ideas and specifications. Practical application of skills learned to develop games. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 442 HISTORY OF VIDEO GAMES

Explores the origin and history of ancient to modern games including board games, card games, arcade amusements, and video games of all kinds. Includes game companies, historic platforms, and common jargon used in the industry. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 443 GAME DESIGN FUNDAMENTALS

Fundamentals of game design are examined through the theories of fun, challenge, polish, responsiveness and the emotional content of making games. Students build a board or card game and develop a game design document from initial pitch through game specifications. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: MART 441

Transfer Credit: CSU

MART 445 3D GAME SCRIPTING

Explores using a 3D game engine for building 3D levels and creating gameplay using systematic approaches to design. Includes importing 3D assets and scripting character controllers and interactive elements. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: MART 441

Transfer Credit: CSU

MART 446 STORYTELLING WITH MEDIA

Discussion and development of plots, character archetypes, and challenges in storytelling that provide the structure to create a unique story experience through gameplay and other media. Examines the aesthetics of games and media, the designer and viewer/player contract, and the Hero's



Journey. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: MART 441

Transfer Credit: CSU

MART 447 3D LEVEL DESIGN

Covers artistic, functional and storytelling aspects of video game level design: prototyping, layout and simple scripting of events. Using a 3D game engine, students design and build a single player and multiplayer level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: MART 445

Transfer Credit: CSU

MART 450 COLLABORATIVE GAME PRODUCTION

Students use project management techniques to organize and communicate as game development prototype teams. Methods explored include Ad hoc, Waterfall, and Agile techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: MART 445

Transfer Credit: CSU

MART 451 RAPID GAME DEVELOPMENT

Students conceive and develop multiple games in a rapid development environment. Brainstorming, conceptualizing, and "finding the fun" of multiple game styles, polishing and adding pizzazz to the game - called JUICE. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: MART 445

Transfer Credit: CSU

MART 452 ADVANCED GAME DESIGN

In-depth exploration of enjoyable gameplay. How to use tutorials, achievements, analytics, and funnels to refine the gameplay experience based on player's experience. Designing economies and challenge ramping to avoid player burnout and turnover, and encourage engagement. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Recommended: MART 443

Transfer Credit: CSU

MART 455 INDIE GAME DEVELOPMENT & ENTREPRENEURSHIP

Freelancing and independent studios as the future of creative game design. This course covers the fundamentals of starting and operating small studios, crowdfunding, investment funding, staying compliant with state and local laws, understanding contracts, marketing, and selling projects. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 32-36 TBA; 64-72 Homework

Transfer Credit: CSU

MART 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Early Childhood Education

ECE. 191 CHILDREN'S LITERATURE

An overview of the body of world literature deemed appropriate and enriching for children from infancy to



adolescence. Designed to impart knowledge about and practice in storytelling techniques, as well as practical experience in presenting age-appropriate literature to children and youth. Theory and practice in discerning literary genres, criteria for selection, and techniques for using classic and contemporary literature with young people. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 180

ECE. 201 CHILD DEVELOPMENT

This course examines the progression of development in the physical, cognitive, social, and emotional domains and identifies developmental milestones for children from conception through adolescence. Emphasis on interactions between biological processes and environmental factors. Students observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI; Area E1

Transfer Credit: CSU (CSU GE DSI; Area E1), UC (IGETC Area 4)

C-ID: CDEV 100

ECE. 210 EARLY CHILDHOOD EDUCATION PRINCIPLES

This course provides the historical contexts and theoretical perspectives of developmentally appropriate practice in early care and education for children birth through age eight. Explores the typical roles and expectations of early childhood educators. Identifies professional ethics, career pathways, and professional standards. Introduces best practices for developmentally appropriate learning environments, curriculum, and effective pedagogy for young children including how play contributes to children's learning, growth, and development. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

C-ID: ECE 120

ECE. 211 EARLY CHILDHOOD EDUCATION CURRICULUM

This course is an introduction to developmentally appropriate curriculum and environments for children birth through age eight. Students use knowledge of children's development, theories of learning and development, and examples from various models of developmentally appropriate practice to plan responsive, intentional environments and curriculum in all content areas to support children's development and learning integrated throughout indoor and outdoor settings. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

C-ID: ECE 130

ECE. 212 CHILD, FAMILY, AND COMMUNITY

The processes of socialization focusing on the interrelationship of family, school, and community. Examines the influence of multiple societal contexts. Explores the role of collaboration between family, community, and schools in supporting children's development. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: CDEV 110

ECE. 213 THE SCHOOL AGE CHILD

The focus of this course is relevant and responsible program planning for before and after school child care. Also presented are the developmental needs of the child 5- to 12-years (middle childhood) and family involvement in child care and the social and economic implications, and available community resources for child care. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

ECE. 223 INFANT AND TODDLER DEVELOPMENT

A study of human development from pre-conception to age three including physical, cognitive, language, social, and



emotional growth and development. Applies theoretical frameworks to interpret behavior and interactions between heredity and environment. Emphasizes the role of family and relationships in development. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

ECE. 225 CARE AND EDUCATION FOR INFANTS AND TODDLERS

Reviews regulations governing child-care centers, essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children from birth to 36 months. Applies current theory and research to the care and education of infants and toddlers in group settings. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

ECE. 240 ADMINISTRATION I: BUSINESS/LEGAL

Introduction to the administration of early childhood programs. Covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. Examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ECE. 201, ECE. 210, ECE. 211 and ECE. 212

Transfer Credit: CSU

ECE. 241 ADMINISTRATION II: PERSONNEL AND LEADERSHIP

Effective strategies for personnel management and leadership in early care and education settings. Includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ECE. 201, ECE. 210, ECE. 211 and ECE. 212

Transfer Credit: CSU

ECE. 242 ADULT SUPERVISION AND MENTORING

This course prepares classroom teachers to mentor novice teachers while addressing the needs of children, parents, and other staff in Early Childhood Education settings. Students study principles of classroom supervision and practice mentoring and guidance strategies. Cross cultural communication is emphasized. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: ECE. 201, ECE. 210, ECE. 211 and ECE. 212

Transfer Credit: CSU

ECE. 244 CURRICULUM AND STRATEGIES FOR PREK-KINDERGARTEN

This course reviews criteria for high quality prekindergarten and transitional kindergarten experiences including foundational learning skills and the design of appropriate learning environments. Key topics include developmental, political and economic issues affecting school readiness, social and economic stressors and their affect on school readiness and success. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

ECE. 247 FOUNDATIONS FOR SCHOOL SUCCESS

Reviews criteria for curriculum and program planning to prepare children to transition from preschool into kindergarten/early elementary grades. Topics covered include: strategies for parent engagement; play-infused curriculum design to support development in all domains/subject areas; kindergarten expectations and curriculum alignment; current research, policies and issues. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

ECE. 254 TEACHING IN A DIVERSE SOCIETY

Examines the historical and current perspectives on diversity and inclusion and the impact of systemic societal influences on children's development, learning, and school experiences. Strategies for developmentally, culturally, and linguistically appropriate anti-bias curriculum will be explored as well as approaches to promote inclusive and anti-racist classroom communities. Includes self-reflection on the influence of teachers' own culture and life



experiences on teaching and interactions with children and families. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

C-ID: ECE 230

ECE. 255 MULTILINGUAL LEARNERS: LANGUAGE AND LITERACY DEVELOPMENT

Children's language and literacy acquisition focuses on the connection between language and brain development. Course covers the expressive and receptive functions of language; theories of language acquisition; first and second language acquisition; code-switching; dual language learning support; varieties of English such as Black English Vernacular; and the revitalization of tribal languages. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

ECE. 260 CHILDREN WITH SPECIAL NEEDS

Introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ECE. 201

Transfer Credit: CSU

ECE. 263 CURRICULUM AND STRATEGIES FOR CHILDREN WITH SPECIAL NEEDS

Best practices in early childhood special education including curriculum modification and support strategies to facilitate the development of cognitive, motor, social, emotional and language development in young children (birth to 8 years of age). Examines intervention plans and interdisciplinary collaboration across both inclusive and self-contained classrooms through a family-focused culturally sensitive framework. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ECE. 201, ECE. 260

Transfer Credit: CSU

ECE. 271 FOUNDATIONAL CONCEPTS IN MULTILINGUAL LEARNING

The course surveys current dual/multi language learning research and practice, foundational concepts in dual/multilingual learning, and teaching strategies that promote cognitive-linguistic competence in young children. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

ECE. 273 MULTILINGUAL LEARNERS: PERSONALIZED ORAL LANGUAGE LEARNING (POLL)

This course reviews instructional methods that support learning and development of children's home language and literacy skills as well as English. Students study effective oral language strategies such as modifications, adaptations, enhancements in the environment, and teaching methods that ensure full access and active participation of all learners. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: ECE. 271 or equivalent.

Transfer Credit: CSU

ECE. 280 CULTURAL HUMILITY: CULTIVATING AN EQUITY MINDSET

The course examines the impact of values, beliefs, implicit and explicit biases on teacher interactions with culturally and linguistically diverse children and families. Concepts such as cultural humility, anti-bias, and reciprocal communication are discussed from an equity-mindset framework necessary to create quality learning environments for all children. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

ECE. 313 HEALTH, SAFETY AND NUTRITION

Laws, regulations, standards, policies, procedures, and best practices related to health, safety, and nutrition in care and education settings for children birth through middle childhood. Includes the teacher's role in prevention



strategies, nutrition and meal planning, integrating health safety and nutrition experiences into daily routines, and overall risk management. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

C-ID: ECE 220

ECE. 333 OBSERVATION AND ASSESSMENT OF YOUNG CHILDREN

Introduces the appropriate use of assessment and observation tools as well as strategies to document young children's development and learning. The use of findings to inform and plan learning environments and experiences are emphasized. Recording strategies, rating systems, portfolios, and multiple assessment tools are practiced, along with strategies for collaboration with families and professionals. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ECE. 201

Transfer Credit: CSU

ECE. 362 PARTNERING WITH FAMILIES

This course focuses on developing culturally and linguistically inclusive communication skills to promote establishment of reciprocal relationships between families and educators. Students learn about strategies that promote effective communication and interactions with multilingual and multiracial families including biological parents, adoptive families, families experiencing homelessness, and extended family members. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

ECE. 364 MULTILINGUAL PRACTICES IN ACTION

Foundational knowledge and skills for supporting multilingual learners and their families. Students use case studies to design and implement research-based language and literacy practices to promote equitable learning opportunities for all children including those with special needs. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

ECE. 366 PRACTICUM IN EARLY CHILDHOOD EDUCATION

Demonstration of developmentally appropriate early childhood program planning and teaching competencies under the supervision of Early Childhood Education faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Reflective practice will be emphasized as student teachers design, implement, and evaluate approaches, strategies, and techniques that promote development and learning. Includes exploration of career pathways, professional development, and teacher responsibilities. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 16-18 Lecture; 96-108 Field Experience; 32-36 Homework

Prerequisites: ECE. 201 or PSYC 201 (offered at College of San Mateo and Skyline College), and ECE. 210 and ECE. 211 and ECE. 212 and ECE. 333; Placements at approved sites only, under the direct supervision of an individual who holds a Master Teacher Permit or higher, issued by the CA Commission on Teacher Credentialing.

Transfer Credit: CSU

C-ID: ECE 210

ECE. 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU



Economics

ECON 100 PRINCIPLES OF MACRO ECONOMICS

The American macroeconomic system and its effects on social, cultural and political environments by focusing on aggregate economic analysis. Allocation mechanisms for scarce resources, such as supply and demand, are discussed and utilized. Aggregate measures of economic activity such as GDP, unemployment, labor participation rates and price indices are defined, examined and critiqued. Finally, the course examines macroeconomic equilibrium, money and financial institutions, the Federal Reserve System, the Solow model of long run growth, the role of saving in the Solow model, short run (Keynesian) monetary and fiscal policy stabilization policy, the Classical model of the economy and international economics. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable.

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: ECON 202

ECON 102 PRINCIPLES OF MICRO ECONOMICS

This course focuses on choices of individual economic decision makers within the framework of supply and demand. Topics include: scarcity, marginality, specialization and trade, equilibrium, elasticity, factor markets, and externalities. Price and output decisions under competitive, imperfectly competitive, and monopolistic markets. Profit maximization and loss minimization strategies for the individual firm are analyzed. Comparative economic systems are also examined. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable.

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: ECON 201

ECON 230 ECONOMIC HISTORY OF THE UNITED STATES

An advanced discussion and analysis of the economic development of the American economy from 1860 to the present time. The class takes economic concepts mastered in a macroeconomics course (e.g. of opportunity cost, moral hazard, monetary theory and policy, fiscal theory and policy, the Keynesian, Monetarist and Austrian schools of thought) and places them in an historical context. Among the topics discussed are: the history of industrial growth, the history of land and resource use, the role of immigration and migration of various ethnic and cultural groups as it relates to the economic development of the U.S. Historical periods examined include: Antebellum and Postbellum South, the Great Depression (1929-1944), the Keynesian revolution and the counter revolution (Monetarist, Classical and Austrian (1945-2009), Great Moderation (mid 1970s - 2007) and the Great Recession (2007-2009). Events studied include, slavery, the transportation revolution, the growth of nationalized markets, the development of money and banking, trade patterns, organized labor, changes in agricultural production, and America's integration into the world economy. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Completion of, or concurrent enrollment in, ECON 100 and appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: D US-1; DSI

Transfer Credit: CSU (CSU GE DSI, D US-1), UC (IGETC Area 4)

Education

EDUC 200 INTRODUCTION TO CLASSROOM TEACHING

A survey of the teaching profession including: pedagogical methods; theories of learning; planning, delivering and assessing instruction; classroom management, professional and ethical considerations; diversity; and standards for the teaching profession. A minimum of 48 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Field Experience; 64-72 Homework



Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU, UC

C-ID: EDUC 200

EDUC 249 REDEFINING LEADERSHIP: INDIVIDUALS EFFECTING CHANGE

Leadership is examined from both theoretical and practical perspectives through the Phi Theta Kappa (PTK) Leadership Development Studies curriculum. This course is designed to provide emerging and existing leaders the opportunity to explore the underlying theoretical basis of leadership and develop or improve their ability to exercise leadership. The course integrates original works from leadership scholars, readings from the humanities, experiential exercises, and feature films. While learning about leadership theories, students explore nationally and internationally accepted leadership models as a framework for developing the necessary skills and strategies to build their capacity for leadership in their personal and professional lives. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

EDUC 265 POSITIVE BEHAVIOR SUPPORT IN INCLUSIVE SETTINGS

This course reviews strategies for behavior management and guidance. Children's behaviors are analyzed from a developmentally appropriate and culturally sensitive framework that honors children's developmental differences, as well as the diverse cultural and contextual factors that help shape their behaviors. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

EDUC 300 APPLIED INCLUSIVE STRATEGIES

Foundational knowledge and skills for supporting children with special needs. Students learn how to implement Universal Design for Learning (UDL), positive behavior support plans, and special education concepts in the classroom. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 8-9 Lecture; 24-27 Lab; 16-18 Homework

Recommended: ECE. 260 and ECE. 263 and EDUC 265

Transfer Credit: CSU

EDUC 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Engineering

ENGR 100 INTRODUCTION TO ENGINEERING

Introduction to the engineering profession and its different fields. The course explains the engineering education pathways and explores effective strategies for students to reach their full academic potential. It also provides an understanding of engineering processes and tools including experimentation, data analysis, and computer and communication skills. Emphasis is given to academic success strategies, technical communications, ethical considerations, and engineering design and analysis skills applied to illustrative projects and problems drawn from various engineering fields. A spreadsheet program (Microsoft Excel) and a high-level computer language (MATLAB or equivalent) are an integral part of the course. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: MATH 130 or MATH 225

Transfer Credit: CSU, UC

C-ID: ENGR 110

ENGR 210 ENGINEERING GRAPHICS

This course covers the principles of engineering drawings in visually communicating engineering designs and an introduction to computer-aided design (CAD). Topics include the development of visualization skills; orthographic projections; mechanical dimensioning and tolerancing practices; and the engineering design process. Assignments develop sketching and 2-D and 3-D CAD skills. The use of CAD software is an integral part of the course. *Letter Grade Only. Degree Credit.*



Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MATH 130

Transfer Credit: CSU, UC

C-ID: ENGR 150

ENGR 215 COMPUTATIONAL METHODS FOR ENGINEERS AND SCIENTISTS

Covers the fundamentals of procedural programming and computational methods for science and engineering. Topics include induction, iteration and recursion; approximations, floating-point computations, introduction to data structures and object oriented programming. Students will be given laboratory projects that use the MATLAB programming language to solve problems and examples drawn from algebra, trigonometry, calculus and elementary physics. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: MATH 251

Transfer Credit: CSU, UC

C-ID: ENGR 220

ENGR 230 STATICS

This course covers vector treatment of force systems acting on particles and rigid bodies; two- and three-dimensional problems; equilibrium problems involving trusses, frames, machines, distributed forces, fluid statics, internal forces and friction; centroids and moments of inertia; shear and moment diagrams for beams and virtual work. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 252 and PHYS 250

Transfer Credit: CSU, UC

C-ID: ENGR 130

ENGR 240 ENGINEERING DYNAMICS

This course covers the fundamentals of kinematics and kinetics of particles and rigid bodies. Topics include kinematics of particle motion; Newton's second law, work-energy and momentum methods; kinematics of planar and three-dimensional motions of rigid bodies; D'Alembert's principle, work-energy and momentum principles for rigid body motion; introduction to mechanical vibrations. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGR 230

Transfer Credit: CSU, UC

C-ID: ENGR 230

ENGR 260 CIRCUITS AND DEVICES

An introduction to the theory and techniques of circuit analysis. Circuit laws and nomenclature, resistive circuits with DC sources, controlled sources, ideal operational amplifiers, natural and complete responses of first- and second-order circuits, steady-state sinusoidal analysis, power calculations, amplifiers, and three-phase circuits. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: PHYS 260 and completion of, or concurrent enrollment in, MATH 275

Transfer Credit: CSU, UC

C-ID: ENGR 260

ENGR 261 CIRCUITS AND DEVICES LABORATORY

Introduction to the design, construction, and measurement of electrical circuits using electrical test and measurement instruments as well as circuit simulation software. The course covers the interpretation of measured and simulated data based on principles of circuit analysis for DC circuits, complete response of first and second-order RLC circuits, and sinusoidal steady-state (AC) circuits. The course also includes the design, measurement, and analysis of circuits with diodes, rectifiers, transistors, and operational amplifiers. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, concurrent enrollment in ENGR 260

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU, UC

C-ID: ENGR 260 L

ENGR 270 MATERIALS SCIENCE

The internal structures and resulting behaviors of materials used in engineering including metals, ceramics, polymers, composites, and semiconductors. The course emphasizes developing the ability to select materials to meet design criteria and to understand the effects of heat, stress, imperfections, and chemical environments



upon material properties and performance. Laboratory exercises provide observation of material structures and behaviors, experience operating testing equipment, and the preparation of experimental reports. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: CHEM 210 and PHYS 250

Transfer Credit: CSU, UC

C-ID: ENGR 140B

ENGR 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

English as a Second Language

ESL 400 COMPOSITION FOR MULTILINGUAL STUDENTS

Designed for advanced English language learners. Students plan, organize, compose, and revise expository essays based on the analysis of complex fiction and nonfiction texts from diverse American authors and works of social, historical, and cultural importance. Students synthesize academic sources to support arguments. Students utilize advanced English grammar, mechanics, and vocabulary. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: ESL 924 or appropriate score on the College Placement Test or other multiple measures assessment.

Transfer Credit: CSU, UC

ESL 800 ESL PREPARATORY COURSE

Beginning-level English-language instruction for speakers of other languages. Developmental practice in all language skills: grammar, vocabulary, listening, speaking, reading, and writing. Preparation for ESL Level I courses. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Recommended: One year of previous English language study.

ESL 808 INTENSIVE GRAMMAR REVIEW

This course is for students whose native language is other than English. Students review, practice, and synthesize the grammar in reading, writing, listening/speaking skills of standard English in an academic context. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: ESL 911 and ESL 921 or equivalent, or appropriate skill level as indicated by ESL placement test and other measures as necessary.

ESL 836 ENGLISH PRONUNCIATION

This is a course for students whose native language is other than English. It is designed to ear train participants to American intonation and pronunciation. There is additional attention to analysis of pronunciation of language related to academic disciplines and vocational areas. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

ESL 837 INTERMEDIATE VOCABULARY DEVELOPMENT

In this course students learn to use word analysis skills to expand vocabulary, as well as to use strategies for understanding new words from contexts. There is additional attention to analysis of word parts and to expanding vocabulary via domains and concepts related to academic disciplines and vocational areas. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: ESL 911 and ESL 921 or equivalent, or appropriate skill level as indicated by ESL placement test and other measures as necessary.



ESL 911 READING AND LISTENING-SPEAKING I

Introduces students to high-beginning integrated practice in reading, speaking and listening for academic English. Special attention is paid to high beginning vocabulary and comprehension of original authentic readings and lectures. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Recommended: Appropriate skill level as indicated by ESL placement test and other measures as necessary.

ESL 912 READING AND LISTENING-SPEAKING II

Introduces students to intermediate integrated practice in reading, speaking and listening for academic English. Special attention is paid to intermediate vocabulary and comprehension of original authentic readings and lectures. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Recommended: ESL 911 and ESL 921 or equivalent, or appropriate skill level as indicated by ESL placement test and other measures as necessary.

ESL 913 READING AND LISTENING - SPEAKING III

Introduces students to high-intermediate integrated practice in reading, speaking and listening for academic English. Special attention is paid to advanced vocabulary and comprehension of original authentic readings and lectures. The course is designed to prepare students for college-level entry courses. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: ESL 912 or appropriate score on the College Language Placement Test or other multiple measures assessment.

ESL 914 READING AND LISTENING - SPEAKING IV

Introduces students to advanced integrated practice in reading, speaking and listening for academic English. Special attention is paid to advanced vocabulary and comprehension of original authentic readings and lectures. The course is designed to prepare students for college-level entry courses. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: ESL 913 or appropriate score on the College Language Placement Test or other multiple measures assessment.

ESL 921 GRAMMAR AND WRITING I

Introduces students to grammar and writing skills at the high-beginning level. Special attention is paid to grammar terminology for the purpose of editing student writing. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Recommended: Appropriate skill level as indicated by ESL placement test and other measures as necessary.

ESL 922 GRAMMAR AND WRITING II

Introduces students to grammar and writing skills at the intermediate level. Special attention is paid to grammar terminology for the purpose of editing student writing. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Recommended: ESL 911 and ESL 921 or equivalent, or appropriate skill level as indicated by ESL placement test and other measures as necessary.

ESL 923 GRAMMAR AND WRITING III

Introduces students to writing skills at the high-intermediate level. Special attention is paid to grammar terminology for the purpose of editing student writing. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: ESL 922 or appropriate score on the College Language Placement Test or other multiple measures assessment.

ESL 924 GRAMMAR AND WRITING IV

Introduces students to grammar and writing skills at the advanced level. Special attention is paid to grammar terminology for the purpose of editing student writing. *Letter Grade Only. Units do not apply toward AA/AS degree.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework



Prerequisites: ESL 923 or appropriate score on the College Language Placement Test or other multiple measures assessment.

English

ENGL 100 READING AND COMPOSITION

An intensive reading and writing course based on the study of primarily non-fiction materials of culturally diverse writers. Course writing emphasizes the expository and the argumentative forms. Emphasis is placed on writing coherent, compelling essays demonstrating critical thinking skills and the basic elements of building a convincing argument. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as indicated by at least a 2.6 high school GPA, successful completion of ESL or ESOL 400, or other measures as applicable.

AA/AS Degree Requirements: Area A2

Transfer Credit: CSU (CSU GE Area A2), UC (IGETC Area 1A)

C-ID: ENGL 100

ENGL 105 READING AND COMPOSITION WITH SUPPORT

A reading and writing course based on the study of primarily non-fiction materials of culturally diverse writers. Includes instruction on how to read complex texts as well as how to write coherent and compelling persuasive essays. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: Appropriate skill level as indicated by high school GPA, successful completion of ESL or ESOL 400, or other measures as applicable.

AA/AS Degree Requirements: Area A2

Transfer Credit: CSU (CSU GE Area A2), UC (IGETC Area 1A)

C-ID: ENGL 100

ENGL 110 COMPOSITION, LITERATURE, AND CRITICAL THINKING

Students read novels, short stories, poetry, and drama written by diverse authors using analytical lenses that call attention to race, culture, gender, and other dynamics at play in literature. They write persuasive essays that demonstrate critical interpretation, the use of evidence and research strategies. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 100 or ENGL 105

AA/AS Degree Requirements: Area A3; Area C2

Transfer Credit: CSU (CSU GE Area A3; Area C2), UC (IGETC Area 1B)

C-ID: ENGL 110 (both ENGL 110 + 165); ENGL 120

ENGL 161 CREATIVE WRITING I

Students learn and practice the craft of writing short stories, sketches, poetry, short drama, journals, reportage and other literary forms for both personal enjoyment and professional training. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC

C-ID: ENGL 200

ENGL 162 CREATIVE WRITING II

In this advanced Creative Writing class, students continue to learn and practice the craft of writing short stories, sketches, poetry, short drama, journals and/or reportage or other literary forms. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 161

Transfer Credit: CSU, UC

ENGL 164 CREATIVE NON-FICTION

The craft of writing the non-fiction genres, such as memoir, personal narrative, biography, autobiography, or journal. Discussion and critiques of works by established authors. Workshop of students' own writing. Guidelines for submission for publication. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.



AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC

ENGL 165 ADVANCED COMPOSITION

In this advanced course in non-fiction writing, students analyze texts from writers of diverse ethnic, cultural and socio-economic backgrounds and gender/sexual orientations. Students are taught to read and think critically as they apply their analytical skills to the writing of nuanced text-based arguments. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 100 or ENGL 105

AA/AS Degree Requirements: Area A3

Transfer Credit: CSU (CSU GE Area A3), UC (IGETC Area 1B)

C-ID: ENGL 105; ENGL 110 (both ENGL 110 + 165)

ENGL 200 INTRODUCTION TO LINGUISTICS: A SURVEY OF LANGUAGE

Equivalent to LING 200. The origin, development, acquisition, and evolution of spoken and written languages are studied in this course. Topics include phonetics/phonology, morphology, syntax, semantics, and pragmatics. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for Eligibility for ENGL 100 or ENGL 105.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

ENGL 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

ENGL 847 ACCELERATED ACADEMIC READING AND WRITING

Pre-transfer course that prepares students for college-level reading and writing. The course focuses on thesis construction, essay organization, and the use of evidence as well as sentence-level writing skills. Text-based assignments incorporate reading strategies to improve comprehension, fluency, analysis, and vocabulary. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Environmental Science & Technology

ENVS 101 ENVIRONMENTAL SCIENCE LABORATORY

An introduction to environmental science that explores the causes, impacts, and solutions to contemporary environmental issues through lab, field, and written exercises. Coursework highlights the methods and tools used in environmental fields and the interdisciplinary nature of the issues and solutions. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in ENVS 100 (offered at Skyline), or, ENVS 115

AA/AS Degree Requirements: Area B3 - only if ENVS 115 is successfully completed prior to or concurrently with ENVS 101

Transfer Credit: CSU (CSU GE Area B3 - only if ENVS 115 is successfully completed prior to or concurrently with ENVS 101), UC (IGETC Area 5C*)

ENVS 115 ENVIRONMENTAL SCIENCE

Introduction to environmental issues from a scientific perspective, focusing on physical, chemical, and biological processes within the Earth system, the interaction between humans and these processes, and the process and role of science in finding sustainable solutions. Topics include contemporary environmental issues related to resource use, pollution, and human population growth. Field trips may be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area B1, B2



Transfer Credit: CSU (CSU GE Area B1, B2), UC (IGETC Area 5A, 5B)

ENVS 120 GLOBAL CLIMATE CHANGE

An introduction to global climate change from a scientific perspective, focusing on Earth processes, the interaction between humans and these processes, and the role of science in finding sustainable solutions. Topics include natural and human causes of climate change, today and over geologic time; Earth feedback systems that regulate climate; impacts of climate change on ecosystems and human constructs; mitigation and adaptation solutions; use of models to understand and track climate change; and the role of public policy in creating equitable solutions. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

ENVS 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Ethnic Studies

ETHN 103 ASIAN AMERICAN STUDIES

This course examines how US institutions ideologically constructed the category of Asian-ness and materially engaged with "Asian" peoples within the United States and its territories. Ethnic Studies theory will be applied to describe critical events in Asian American histories, cultures, and intellectual traditions including an examination of how "Asian" communities interact with each other and other racialized/ethnicized communities. This includes a focus on topics ranging from self-determination to imperialism in a move toward building a just and equitable society. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI; Area F

Transfer Credit: CSU (CSU GE DSI; Area F), UC (IGETC Area 4; Area 7A)

ETHN 105 AFRICAN AMERICAN HISTORY AND CULTURE

This is a survey of the history of African Americans from their origins in Africa to the present, with special emphasis on their contributions to California's social, political and economic institutions. It examines the political, economic, social, and cultural factors as well as interactions between African Americans and the larger society while analyzing the intersection of race and racism. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C2, D US-1; DSI; Area F

Transfer Credit: CSU (CSU GE Area C2; DSI, D US-1; Area F), UC (IGETC Area 4; Area 7A)

ETHN 107 INTRODUCTION TO NATIVE AMERICAN STUDIES

This course provides an introduction to the study of Native American histories, experiences, intellectual traditions, and forms of artistic expression. Students engage with texts that confront the structural genocide underlying the construction of the U.S. settler state, and explore Native practices of resistance, resilience, and regeneration. Course materials include fiction, poetry, spoken word, and other creative texts, as well as historical and archival studies. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C2, D US-1; DSI; Area F

Transfer Credit: CSU (CSU GE Area C2; DSI, D US-1; Area F), UC (IGETC Area 4; Area 7A)

ETHN 108 RETHINKING RACE, GENDER, AND NATION

This course introduces students to the theoretical, methodological, and substantive foundations of Ethnic Studies. Through a re-examination of U.S. history, students



develop an understanding of the relationships between racial formation and the production of social and economic inequality. Readings focus on the interrelated processes of settler-colonial land expropriation, chattel slavery, multiple forms of migration, overseas imperial expansion, inter- and intra-national circulations of economic value, and the historical development of the U.S. settler legal regime. Particular attention is given to the ways in which race and ethnicity have been historically co-constituted with other socially-constructed identities, such as gender, sexuality, class, and citizenship. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI; Area F

Transfer Credit: CSU (CSU GE DSI; Area F), UC (IGETC Area 4; Area 7A)

ETHN 109 BORDERS AND CROSSINGS

This introductory Ethnic Studies course examines how U.S. processes of racial formation and gendering are related to multiple transnational circulations – of commodities, bodies, labor, capital, knowledge, and culture. We interrogate the material and ideological work of borders – particularly nation-state borders, but also the borders and boundaries of racial and ethnic categories, gendered and sexualized identities, languages, forms of labor, and disciplinary categories of knowledge. Also explored are the many ways in which such borders are variously resisted, contested, transgressed, transcended, and transformed over time. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI; Area F

Transfer Credit: CSU (CSU GE DSI; Area F), UC (IGETC Area 4; Area 7A)

ETHN 130 INTRODUCTION TO LATINX STUDIES

An examination of the histories, experiences, and philosophies of Latinx communities. National origins groups such as Mexicans, Puerto Ricans, Cubans, Salvadorans/Salvadorians and others will be considered through the lens of history, culture, literature, etc. Ethnic Studies concepts such as racialization, white supremacy, intersectionality, liberation, and decolonization will be utilized as a basis for understanding injustice and creating a more equitable society for racialized communities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

ETHN 265 EVOLUTION OF HIP HOP CULTURE: A SOCIO-ECONOMIC AND POLITICAL PERSPECTIVE

This course traces the evolution of Hip Hop from its African roots through the diaspora as a cultural form of expression by examining music, dancing, spoken word, philosophy, and lifestyles. Also, Hip Hop is analyzed from social, economic, and political perspectives. It is explored as a product of the African American struggle as reflected in music, poetry, lyrics, dance, artists, and major issues associated with Hip Hop. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2; Area F

Transfer Credit: CSU (CSU GE Area C2; Area F), UC (IGETC Area 3B; Area 7A)

ETHN 288 AFRICAN-AMERICAN CINEMA

This course explores the rich and diverse history of African American filmmaking. Focusing on films written and/or directed by African Americans, this seminar traces the history of filmmaking from the silent era to the present day. In exploring Black cultural production and creative expression, students consider the ways in which film is used as a medium of protest, resistance, and cultural affirmation. We look at films through the critical lenses of Ethnic Studies theory, race and representation in American cinema while locating our analysis within larger frameworks of Hollywood's representation of African Americans and various cultural and social movements within local and global contexts. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1; Area F

Transfer Credit: CSU (CSU GE Area C1; Area F), UC (IGETC Area 3A; Area 7A)

Fashion Design and Merchandising

FASH 100 PRINCIPLES OF DESIGN

An overview of design principles and elements used in fashion to create effective and successful garment designs. Focus is on the recognition, analysis and evaluation of good design in both ready to wear and student's original designs.



Other topics include sketching and presentation techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

FASH 110 BEGINNING CLOTHING CONSTRUCTION

Designed to provide an overview of basic sewing techniques, sewing machine skills, and an understanding of fabrics and patterns. The focus is on clothing construction techniques for students with little or no sewing experience. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Transfer Credit: CSU

FASH 111 TECHNIQUES OF FIT

An overview of various pattern alteration techniques for skirts and bodices based on individual figure variations. Techniques examine sizing methods, ease assessment, fabric variability, and the identification of figure variations. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Transfer Credit: CSU

FASH 113 TEXTILES

An introduction to the study of natural and chemical fibers, yarns, fabrics, finishing, and dyeing. Students also analyze methods used for purchasing and caring for clothing. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

FASH 114 INTRODUCTION TO ITALIAN FASHION

An introduction to the Italian Fashion Industry from pre-World War II to the present day. Students analyze designers, fabrics, and manufacturing techniques and the implications for global fashion. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

FASH 115 INTERMEDIATE CLOTHING CONSTRUCTION

Provides an overview of intermediate sewing techniques for constructing collars, buttonholes, sleeves, hems, zippers, pockets, and other garment details. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Recommended: FASH 110 or basic sewing skills.

Transfer Credit: CSU

FASH 116 TAILORING

An overview of techniques applied to the construction of suits and coats. Students analyze and adapt patterns for proper fit and evaluate and select fabrics for specific garments. Collars, sleeves, linings, welt pockets and bound buttonholes are covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Transfer Credit: CSU

FASH 118 FLAT PATTERN

An introduction to basic pattern-making to create garment designs. Students learn to manipulate darts and draft a variety of necklines, collars, sleeves, skirts and dresses from a master pattern. Students work with half scale, quarter scale and full scale patterns. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Transfer Credit: CSU

FASH 122 ADVANCED TAILORING

Advanced tailoring techniques for the construction of jackets and coats. Students demonstrate mastery of collars, lapels, pockets, bound buttonholes, welt pockets, sleeves, and linings for suits and coats. Garments are constructed from commercial patterns or the student's original design with pattern adaptation for personal fit. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3



Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: FASH 116

Transfer Credit: CSU

FASH 123 INTRODUCTION TO THE FASHION INDUSTRY

This course is an introduction to the fashion industry. Students analyze trends and manufacturing techniques and their implications for fashion. Terminology, careers, and job responsibilities applicable to the fashion industry are covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

FASH 132 TROUSER CONSTRUCTION

Learn techniques used for pants construction. Topics include fly front zippers, various waistline treatments, various pocket techniques, linings, underlinings, hems and cuffs. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

FASH 133 COPYING READY-TO-WEAR

Learn how to make a pattern from an existing garment without taking the garment apart. Through demonstration and hands-on experience, use the materials needed to generate this pattern from the existing garment, and make a muslin garment to test this pattern and refine it to ensure an exact duplicate of the original. Also included are facings, hem allowances, and other pertinent pattern drafting knowledge. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Basic sewing skills

Transfer Credit: CSU

FASH 140 BASIC SERGING

Introduction to the use of the serger sewing machine for creating a variety of seams, as well as functional and decorative edge finishes used in the construction of garments. Students explore tension, stitch formation,

threading and maintenance. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

FASH 146 DESIGNER TECHNIQUES IN SEWING

An overview of designer details in ready-to-wear fashion and application of these techniques in clothing construction. Learn to design and sew garments with unique collars, sleeves, pockets, and hems. Changing components of a garment for different designs is a focus of the class. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Transfer Credit: CSU

FASH 150 HISTORY OF FASHION

A survey course of fashions of Western civilization from ancient cultures to the present day. Students analyze fashion trends as influenced by cultural, industrial and political developments. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC

FASH 151 FASHION MERCHANDISING

Examines the retail and wholesale aspects of the fashion industry by studying trends, consumer behavior and fashion marketing. Covers globalization of the apparel industry, production costs, display, fashion promotion and advertising as well as career choices such as retail buyers, store managers, fashion directors, visual merchandisers, and sales associates. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

FASH 162 ADVANCED FLAT PATTERN

A comprehensive study of pattern making and the drafting techniques used for creating more advanced garment design. Students make patterns for and sew various full-



scale garments with many different necklines, collars, sleeves, skirts, and dresses. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 16-18 TBA; 80-90 Homework

Prerequisites: FASH 118

Transfer Credit: CSU

FASH 163 PATTERN GRADING

Techniques for taking a sized pattern and grading it up and down into multiple sizes. Course includes an overview of different size ranges, methods of grading, and grading rules. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

FASH 164 FASHION ILLUSTRATION

An overview of sketching for clothing design with emphasis on perception development through specific drawing exercises to develop fashion figure proportions. A variety of media and drawing techniques will be used to create fashion sketches. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

FASH 167 THE CUSTOM DRESS FORM

Learn how to create a customized dress form used for design development and sewing construction. Students are fitted in customized covers, and foam dress forms are shaped to fit these covers. Information on ordering/purchasing dress forms is provided in the first class meeting. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

FASH 168 FASHION DRAPING

An overview of designing clothing on a dress form. Students use this 3-dimensional design process to create patterns for original designs. The translation of fashion ideas from design principles while draping with muslin to finished

garments is also examined. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

FASH 169 EVENING GOWN CONSTRUCTION

Students learn advanced sewing techniques used in the construction of evening gowns. They create gowns incorporating the techniques learned in class, including working with difficult fabrics and bias. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: Basic sewing skills.

Transfer Credit: CSU

FASH 170 FRENCH PATTERN DRAFTING

Learn the French couture method for drafting a master pattern. The master pattern, known as the moulage, is a form-fitting pattern that duplicates the figure exactly with no ease added. It is used to create the sloper and basic sleeve. These are used to design many different garment styles. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: Basic sewing skills

Transfer Credit: CSU

FASH 171 PANTS DRAFTING

Learn techniques for measuring and drafting a basic pant sloper. The students then make the pattern in muslin and refine fit to produce a pattern that fits their own figures. From this basic block, students draft jean and dress pant slopers. Drafting pant details such as pockets, pleats, waistbands and fly-front zippers are discussed. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Recommended: Basic sewing skills

Transfer Credit: CSU

FASH 172 BUSTIER

Introduction to the proper pattern work and construction techniques to create a well-fitting, well-performing strapless



bodice (bustier), which can be adapted to evening wear or bridal wear. As these garments must fit closely, a well-fitting sloper, or the moulage from the French pattern drafting course is recommended. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Basic sewing skills

Transfer Credit: CSU

FASH 173 LINGERIE DESIGN AND CONSTRUCTION

Learn about the world of lingerie encompassing intimate apparel and loungewear and gain a knowledge base of appropriate fabrics and construction techniques specific to creating lingerie. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: FASH 110 or basic sewing skills.

Transfer Credit: CSU

FASH 175 ADVANCED ILLUSTRATION

Develop advanced fashion rendering skills and figure styles using a variety of media and drawing techniques to create original fashion illustrations. Emphasis is on developing flair, movement, and attitude in the fashion figure. Drawing flats, specs, floats, and fabric renderings are also covered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: FASH 164 or equivalent

Transfer Credit: CSU

FASH 178 COMPUTERIZED PATTERN GRADING

Learn how to use PAD, a professional computerized pattern development system, to grade patterns into multiple sizes. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: FASH 163

Transfer Credit: CSU

FASH 180 COMPUTERIZED PATTERN DESIGN

Designed to teach PAD, a professional computerized pattern development software, to draft and develop

patterns for original designs. Students have the opportunity to utilize flat pattern skills to develop patterns used in the apparel industry, as well as learn the process of digitizing and plotting patterns using PAD software and hardware. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

FASH 195 PORTFOLIO DEVELOPMENT

Overview of portfolio assembly methods for fashion design, with emphasis on professional display techniques of student's original designs. Course covers presentation techniques, materials, content considerations, organization, and layout choices. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

FASH 196 INTRODUCTION TO THE COSTUME INDUSTRY

Introduction to the theater costuming industry as a profession. Students have the opportunity to visit costume shops throughout the Bay Area, learn the various jobs which are needed within a costume shop, and understand the process of designing theatrical costumes from concept to completion. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

FASH 197 PATTERN DESIGN FOR HISTORIC COSTUME

Pattern development and construction of historical costumes, from the Middle Ages to the beginning of the twentieth century. Learn how to apply the principles of modern pattern making to various historical styles and use this knowledge to design and create historical costumes. The unique cut and construction of each historical period is covered, along with undergarments and accessories necessary for each period. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: FASH 110 or basic sewing skills.

Transfer Credit: CSU



FASH 199 COSTUMING FOR THEATRICAL PRODUCTION

Learn to create costumes for an actual theatrical production. All aspects of theater costuming are utilized, including script analysis, design, pattern development, fitting, construction and alterations. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: FASH 110 or equivalent sewing experience.

Transfer Credit: CSU

FASH 225 APPAREL ANALYSIS

Provides students with an overview of the apparel production cycle: how apparel products are designed, created, and distributed. Students analyze garment design and construction features in order to understand their relationship to apparel cost and quality. Style terminology, sizing, price points, fabric choices, sustainability and other factors in apparel production are also discussed. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

FASH 226 VISUAL MERCHANDISING AND DISPLAY

Explores the visual merchandising and display methods used within the fashion and related industries and the role each method plays in these industries. Introduces the equipment, materials and techniques used to create dynamic visual displays. Students critique and create visual displays and visual merchandising materials. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

FASH 672 WORK EXPERIENCE EDUCATION: INTERNSHIP

Supervised internship in cooperation with private or public sector employers. Designed to apply knowledge and learn new skills, directly related to the student's program of study, outside of the normal classroom environment. Students must attend one orientation which is offered the first three weeks of each semester. One unit of credit will be earned for each 48-54 hours of paid or unpaid work per semester,

with a maximum of 6 units per semester. Students may repeat Work Experience courses within the SMCCCD for credit up to a maximum of 16 total units. The unit limitation applies to any Work Experience Education (any combination of 670, 671 and/or 672 courses) offered within the SMCCCD. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Work Experience

Prerequisites: A minimum of 12 completed units in the occupational discipline.

Transfer Credit: CSU

FASH 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Fitness

FITN 112 CROSS-TRAINING

A course designed to develop aerobic fitness, by concurrently training in two or more dynamic endurance activities (fitness walking, running, hiking, elliptical machine, stair master, stationary bike and/or step platform) combined with anaerobic exercise (strength training, free weights, functional training, sprints, plyometric training, and/or high intensity movement). Emphasis is placed on group exercise utilizing multiple aerobic activities plus anaerobic exercises to produce cross-training effect. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*



FITN 117 FITNESS ASSESSMENT, STRENGTH AND CONDITIONING

Improve the quality of life by adopting, maintaining, or increasing daily physical activity in a fitness setting. FITN 117 is an introductory course examining the importance of strength and cardiovascular training in maintaining healthy body composition. The course analyzes proper lifting techniques, safe operation of exercise machines, gym etiquette, fundamental exercises for each muscle group, the basic human anatomy related to the student's fitness/health goals, and the workout structure to reach these goals. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 118 BEGINNING FITNESS CENTER

Continuation of FITN 117. FITN 118 is the second installment of a series of courses that promotes participation in physical activity while in a fitness setting, fostering lifelong health and wellness. Examines the importance of strength and cardiovascular training to maintain healthy body composition. The course examines various modes of strength training, including free-weight exercises, workout organization, types of strength training, aerobic versus anaerobic training, basic exercise physiology, fitness assessment, and goal setting. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 117

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 119 INTERMEDIATE FITNESS CENTER

Continuation of FITN 118. FITN 119 is the third installment of the series designed for students ready for intermediate to advanced level concepts of resistance and cardiovascular training. Examines the importance of physical activity and physical fitness to maintain healthy body composition. Students are introduced to multi-joint exercises, Olympic-style lifting techniques, functional training concepts as well as other advanced level exercises, to promote improved performance for sport, recreation and real-life activity. Students should demonstrate the appropriate strength, skill and technique to perform exercises safely. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 118

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 122 TOTAL BODY BURN

A comprehensive group activity course designed to improve upper and lower body muscular endurance, tone, flexibility and body composition using light weights and high repetitions. Additional emphasis is placed on posture, coordination, and balance using body weight exercises. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 128.1 CORE STRENGTH AND FUNCTIONAL TRAINING I

Basic exercises incorporating a stability ball and other functional exercise equipment that build a foundation for functional movement, emphasizing core strength, while increasing whole body fitness, flexibility, stabilization, balance and coordination. The course is suitable for all fitness levels and prepares students for all types of physical activity from everyday movement to athletic engagement. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 128.2 CORE STRENGTH AND FUNCTIONAL TRAINING II

Continuation of Fitness 128.1. Intermediate level course incorporating exercises on stability ball and other functional fitness equipment that builds a foundation for functional movement, emphasizing core strength, while increasing whole body fitness, flexibility, stabilization, balance and coordination. The course is suitable for students at an intermediate fitness level and prepares participants for all types of physical activity from everyday movement to athletic engagement. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 128.1 or demonstrated skill level.



AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 128.3 CORE STRENGTH AND FUNCTIONAL TRAINING III

Continuation of Fitness 128.2. Intermediate to advanced level course incorporating exercises on the stability ball and other functional fitness equipment that builds a foundation for functional movement, emphasizing core strength, while increasing whole body fitness, flexibility, stabilization, balance, and coordination. The course is suitable for students at an intermediate fitness level and prepares participants for all types of physical activity from everyday movement to athletic engagement. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 128.2

Transfer Credit: UC

FITN 152 BASKETBALL CONDITIONING

A comprehensive basketball conditioning course designed for the intercollegiate community college basketball athlete. Course emphasizes cardiovascular fitness, strength, speed, skill and agility with and without the ball. Fitness and skill assessments are ongoing throughout the course. May be repeated for credit up to 3 times. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 1.5

Hours/semester: 24-81 Lab

Recommended: Demonstrated ability is required.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 153 SOCCER CONDITIONING

A comprehensive group activity course designed to improve the total fitness level of the competitive intercollegiate community college soccer athlete. Course emphasizes cardiovascular fitness, strength, speed, balance and agility with and without the ball. Assessments of the students' fitness levels are made through a series of fitness tests. May be repeated for credit up to 3 times. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 154 VOLLEYBALL CONDITIONING

A comprehensive group activity course designed to improve the total fitness level of the competitive intercollegiate community college volleyball athlete. Course emphasizes cardiovascular fitness, strength, speed, balance and agility with and without the ball. Assessments of the students' fitness levels are made through a series of fitness tests. May be repeated for credit up to 3 times. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 210 VARSITY WEIGHT CONDITIONING

Intended for out-of-season varsity athletes to provide fitness and strength training programs that prepare them for intercollegiate competition. Includes sport-specific training, speed, agility, strength, and circuit workouts. Free weights, weight machines, jump ropes and speed ladders are used. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Recommended: Demonstrated skill in athletic competition

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 227.1 TRX® SUSPENSION TRAINING I

An introductory group exercise class utilizing the TRX® Suspension Trainer. Muscular strength, balance, flexibility, and core stability are trained via leveraging gravity to complete bodyweight exercises in three of the six TRX® foundational movement categories. Topics include proper set-up, safe practices, philosophy of suspension training, and proper exercise technique. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 227.2 TRX® SUSPENSION TRAINING II

Continuation of FITN 227.1. Includes a review of proper set-up, safe practices, philosophy of suspension training, and proper exercise technique. The remaining three TRX® foundational movement categories are introduced. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*



Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** FITN 227.1**AA/AS Degree Requirements:** Area E2; Physical Education**Transfer Credit:** CSU (CSU GE Area E2), UC***FITN 227.3 TRX® SUSPENSION TRAINING III**

Continuation of FITN 227.2. Includes a review of proper set-up, safe practices, philosophy of suspension training, and proper exercise technique. The TRX® Rip Trainer is introduced as a supplemental tool to incorporate rotational training. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** FITN 227.2**AA/AS Degree Requirements:** Area E2; Physical Education**Transfer Credit:** CSU (CSU GE Area E2), UC***FITN 227.4 TRX® SUSPENSION TRAINING IV**

Continuation of FITN 227.3. Includes a review of proper set-up, safe practices, and proper exercise technique for the TRX® Suspension Trainer and Rip Trainer. The Functional TRX model introduces add-on modalities in the form of smash balls, heavy ropes, kettlebells, and sandbags. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** FITN 227.3**AA/AS Degree Requirements:** Area E2; Physical Education**Transfer Credit:** CSU (CSU GE Area E2), UC***FITN 235 BOOT CAMP**

A group fitness class consisting of cardiovascular endurance training that uses various methods other than long distance continuous running. Methods include Fartlek training, which consists of sprints and interval training, combined with active recovery in between. Workouts target all muscle groups and vary daily. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**AA/AS Degree Requirements:** Area E2; Physical Education**Transfer Credit:** CSU (CSU GE Area E2), UC***FITN 301.1 SPINNING I**

A beginning level aerobic exercise class performed on a stationary racing bicycle and done to high-cadence music. An exciting and fast-paced workout to improve aerobic conditioning. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**AA/AS Degree Requirements:** Area E2; Physical Education**Transfer Credit:** CSU (CSU GE Area E2), UC***FITN 301.2 SPINNING II**

Continuation of FITN 301.1. Intermediate level aerobic exercise performed on a stationary racing bicycle and done to high-cadence music. An exciting and fast-paced workout to improve aerobic conditioning. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** FITN 301.1 or demonstrated skill level.**AA/AS Degree Requirements:** Area E2; Physical Education**Transfer Credit:** CSU (CSU GE Area E2), UC***FITN 301.3 SPINNING III**

Continuation of FITN 301.2. Intermediate advanced aerobic exercise performed on a stationary racing bicycle and done to high-cadence music. An exciting and fast-paced workout to improve aerobic conditioning. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**Prerequisites:** FITN 301.2 or demonstrated skill level.**AA/AS Degree Requirements:** Area E2; Physical Education**Transfer Credit:** CSU (CSU GE Area E2), UC***FITN 304.1 WALKING FITNESS I**

A beginning level low impact course that aims to improve cardiovascular fitness through a gradual progression of exercises that includes a dynamic warm-up and proper cool-down stretching while emphasizing distance and timed walks. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1**Hours/semester:** 48-54 Lab**AA/AS Degree Requirements:** Area E2; Physical Education**Transfer Credit:** CSU (CSU GE Area E2), UC*

FITN 304.2 WALKING FITNESS II

An intermediate level low impact course that aims to improve cardiovascular fitness through a gradual progression of exercises that includes a dynamic warm-up and proper cool-down while introducing hill and incline walking. Emphasis is placed on distance and timed walking. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 304.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 304.3 WALKING FITNESS III

An advanced intermediate level low impact course that aims to improve cardiovascular fitness through a gradual progression of exercises that includes a dynamic warm-up, a proper cool-down, hill and incline walking, and cross-training exercises to enhance walking time and distance. Emphasis is placed on distance and timed walking. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 304.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 304.4 WALKING FITNESS IV

An advanced level low impact course that aims to improve cardiovascular fitness through a gradual progression of exercises that includes a dynamic warm-up, a proper cool-down, hill and incline walking, cross-training exercises and speed walking. Emphasis is placed on distance and timed walking. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 304.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 308.1 HIKING AND TREKKING FOR FITNESS I

Introduction to the cardiovascular and fitness related benefits of hiking and trekking. A fitness course for the

outdoor enthusiast, classes are conducted on local Bay Area trails. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 332.1 FLEXIBILITY AND STRETCHING I

The focus of this course is to help condition and tone the body through low impact fitness techniques and total body stretching, proper breathing techniques, and exercises for flexibility. Emphasis is placed on a dynamic warm-up and static stretching exercises. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 332.2 FLEXIBILITY AND STRETCHING II

Continuation of FITN 332.1. The focus of this course is to help condition and tone the body through low impact fitness techniques and total body stretching, proper breathing techniques, and exercises for flexibility at an intermediate level. Emphasis is placed on a dynamic warm-up and static stretching exercises. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 332.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 334.1 YOGA I

Designed to educate students in Hatha Yoga at a beginning level. A fitness course using yoga postures to increase flexibility, strength and endurance; improve balance, posture and breathing; and teach relaxation techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*



FITN 334.2 YOGA II

Designed to educate students in Hatha Yoga at an intermediate level. A fitness course using yoga postures to increase flexibility, strength and endurance; improve balance, posture and breathing; and teach relaxation techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 334.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 334.3 YOGA III

Designed to educate students in Hatha Yoga at an advanced intermediate level. A fitness course using yoga postures to increase flexibility, strength and endurance; improve balance, posture and breathing; and teach relaxation techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 334.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 334.4 YOGA IV

Designed to educate students in Hatha Yoga at an advanced level. A fitness course using yoga postures to increase flexibility, strength and endurance; improve balance, posture and breathing; and teach relaxation techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 334.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 335.1 PILATES I

Training of the muscles in the torso through controlled exercises taught at a beginning level. Designed to improve posture, coordination, balance, flexibility and build core strength. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 335.2 PILATES II

Training of the muscles in the torso through controlled exercises taught at an intermediate level. Designed to improve posture, coordination, balance, flexibility and build core strength. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 335.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 335.3 PILATES III

Training of the muscles in the torso through controlled exercises taught at an advanced intermediate level. Designed to improve posture, coordination, balance, flexibility and build core strength. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 335.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

FITN 335.4 PILATES IV

Training of the muscles in the torso through controlled exercises taught at an advanced level. Designed to improve posture, coordination, balance, flexibility and build core strength. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: FITN 335.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

Funeral Services Education

FSE. 200 INTRODUCTION TO FUNERAL SERVICE

Survey of the history of the funeral service industry and a comprehensive overview of the field of funeral service. Students learn the role and skills of the funeral service



practitioner. This course provides insight into the funeral service industry and the career opportunities available. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

FSE. 210 FUNERAL DIRECTING I

This course introduces the general practices of funeral directing. It focuses on the sociological phenomena that affect all the elements of funeral service including cultural differences, family structures, and factors of change that relate to funeralization. It also includes notification of death, transfer and disposition of bodies, arrangement conferences, pre-planned funerals, and post-arrangement follow-up. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

Prerequisites: FSE. 200 or possess a Funeral Director License or proof of completing Arrangement Counselor Training.

Transfer Credit: CSU

FSE. 212 FUNERAL SERVICE SCIENCE

This course is designed for the Funeral Service Education student. Course material expands on general anatomy, chemistry, microbiology, and pathological concepts as related to the preparation, presentation, and sanitation of the human remains. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: BIOL 250 and FSE. 200

Recommended: CHEM 410, BIOL 240

Transfer Credit: CSU

FSE. 215 FUNERAL DIRECTING II

This course introduces the basic philosophies of a cross-section of religious and ethnic funeral practices and the role of the funeral practitioner in directing each type. Example cultural groups include African-American, Islamic, Protestant, Buddhist and Hindu among others. It also includes procedures for fraternal, military, and celebrity funerals. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

Prerequisites: FSE. 210 and FSE. 220 and FSE. 225

Transfer Credit: CSU

FSE. 220 FUNERAL SERVICE LAW AND ETHICS

This course introduces law and the judicial system as they pertain to the funeral industry. Topics include sources of law, the legal status of a dead human body, the duty of burial, rights to control funeral arrangements and final disposition, liability for funeral expenses, torts involving the dead human body and the funeral director, wills, estates, probate, cemeteries, crematories, and state and federal laws and regulations. Personal and professional ethics that guide decisions and actions in the proper treatment of the dead are also included. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: FSE. 210

Recommended: BUS. 201

Transfer Credit: CSU

FSE. 225 PSYCHOLOGY OF DEATH AND DYING

This course is an introduction to thanatology and basic psychological terminology and theories, with an emphasis on the study of grief, bereavement, and mourning. The content provides the knowledge required of the funeral director to work effectively with families as a facilitating agent. Follow-up programs initiated by the funeral director are examined in detail as well as community support groups with whom the funeral director participates. Major emphasis is placed on the student identifying problem areas in the field, intervening, and professional referral. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: FSE. 200 or possess a Funeral Director license or proof of completing Arrangement Counselor Training.

Transfer Credit: CSU

FSE. 230 MERCHANDISING IN THE FUNERAL SERVICE INDUSTRY

This course introduces merchandising as it applies to the funeral service profession. The curriculum is divided into two main sections. The first covers construction and features of caskets, outer burial containers, and other funeral-related products. The second section examines methods of pricing, display, presentation, and control of funeral merchandise. *Letter Grade Only. Degree Credit.*

Units: 3



Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: FSE. 210

Transfer Credit: CSU

FSE. 235 FUNERAL SERVICE MANAGEMENT

This course introduces the basic principles of management as they apply to the practice of the funeral profession. It explores the role and function of an effective manager, emphasizing the functions of planning, organizing, motivating, directing, and controlling. Specific areas of funeral service practice and managerial guidelines for those areas are covered. Topics also include management theory as it relates to funeral service practice. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

Prerequisites: FSE. 210

Recommended: ACTG 100

Transfer Credit: CSU

FSE. 250 RESTORATIVE ART

This course introduces the techniques of creating an acceptable physical appearance of the deceased for the benefit of the survivors. Topics include the study of facial features, cosmetics, and restorative treatment for a variety of situations faced by the practitioner. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: FSE. 212

Transfer Credit: CSU

FSE. 260 EMBALMING I

This course introduces the phenomenon of death relative to the human body. It includes the processes of preservation, restoration, and sanitation in treating the dead human body. The course outlines the legal and social aspect of embalming, the use of anatomical systems in preservation and the application of chemical preservatives to slow decomposition. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: FSE. 212 and FSE. 220

Transfer Credit: CSU

FSE. 265 EMBALMING II

This course is a continuation of FSE. 260. It is the study of vascular anatomy, case analysis, the selection and injection of embalming fluids, and treatment of specific conditions requiring special attention including traumatic deaths, time considerations, moisture considerations and tissue procurement. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: FSE. 260

Transfer Credit: CSU

FSE. 270 FUNERAL SERVICE COUNSELING

This course examines communication skills and the role of the funeral director as facilitator, counselor, and caregiver. Topics include specific communication and counseling techniques as they are applied in funeral service practice as well as normal and abnormal grief reactions, children and death, crisis intervention counseling, and dealing with stress and burnout. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: FSE. 210 and FSE. 225

Transfer Credit: CSU

FSE. 280 FUNERAL SERVICE EDUCATION PRACTICUM

This course provides an opportunity to apply classroom instruction in funeral service education to real-world practice in the community. The student participates in an off-site lab experience at approved off-campus preceptor sites. Additionally, students prepare for the National Board Examination. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 16-18 Lecture; 192-216 Field Experience; 32-36 Homework

Prerequisites: Students must have completed all general education and competency requirements pertaining to FSE degree for graduation requirements and completion of, or concurrent enrollment in FSE. 265.

Transfer Credit: CSU

Geography

GEOG 100 PHYSICAL GEOGRAPHY

A study of the Earth and the processes that create and shape its physical features and landforms. Topics include



Earth dimensions and motions, seasons, map reading, weather and climate, tectonic and surface process, landforms, and tools used by geographers. Emphasis is placed on recognizing, describing, and interpreting the spatial distribution of Earth features, the processes that form these features, and their relationship to humanity. Field trip may be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B1

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

C-ID: GEOG 110

GEOG 101 PHYSICAL GEOGRAPHY LAB

Practical application of the basic concepts of Physical Geography. Students use the tools of geography, such as maps and field observations, to enrich their understanding of the Earth's physical processes. Topics include Earth-Sun relationships, weather, climate, tectonic and surface processes, landforms, water, and ecosystems. Fieldtrips may be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in, GEOG 100

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B3 - only if GEOG 100 is successfully completed prior to or concurrently with GEOG 101

Transfer Credit: CSU (CSU GE Area B3 - only if GEOG 100 is successfully completed prior to or concurrently with GEOG 101), UC (IGETC Area 5C*)

GEOG 110 CULTURAL GEOGRAPHY

Cultural geography is the spatial study of human populations, cultural origins, and the diffusion of cultural expression over time. Topics include demography, the influence of environmental landscape modification, language, religion, political and economic systems, and the role of factors on human settlement, urbanization and technology. Emphasis is placed on the spatial interactions amongst nature, society, and culture. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: GEOG 120

GEOG 150 WORLD REGIONAL GEOGRAPHY

Geographic analysis of the physical, cultural, and population patterns of world regions. A critical examination, with historical context, is also made of the economy and politics, sociocultural issues, environmental issues, and measures of human well-being within each region. This course is aimed at helping students make sense of world events, environments, cultures, conflicts, and lifestyles, and to begin to prepare them for life in an increasingly global community. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: GEOG 125

GEOG 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Geology

GEOG 100 INTRODUCTION TO GEOLOGY

An introduction to Earth materials, landforms, and the processes that shape the Earth. Course includes the study of rocks and minerals, plate tectonics, volcanoes, earthquakes, and surface processes such as landslides, rivers, and glaciers. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*



Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area B1

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

C-ID: GEOL 100; GEOL 101 - GEOL 100 & 101 must be taken

GEOL 101 GEOLOGY LABORATORY

An introduction to earth materials through the identification of minerals and rocks. Interpretation of geologic processes and landforms by analyzing maps and other data. Includes the study of plate tectonics, geologic time, and surface processes such as rivers, groundwater and glaciers. Field trips may be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in GEOL 100

AA/AS Degree Requirements: Area B3 - only if GEOL 100 is successfully completed prior to or concurrently with GEOL 101

Transfer Credit: CSU (CSU GE Area B3 - only if GEOL 100 is successfully completed prior to or concurrently with GEOL 101), UC (IGETC Area 5C*)

C-ID: GEOL 100L; GEOL 101 - GEOL 100 & 101 must be taken

GEOL 121 EARTH SCIENCE

An interdisciplinary study of the planet Earth, stressing the interconnectedness of Earth systems. Topics include Earth materials, geologic processes and landforms, atmosphere processes, the hydrosphere, ocean characteristics and processes, Earth/Sun relationships, and the Solar System. A fieldtrip may be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

AA/AS Degree Requirements: Area B1, B2, B3

Transfer Credit: CSU (CSU GE Area B1, B2, B3), UC (IGETC Area 5A, 5C)

C-ID: GEOL 121

GEOL 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged

with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Health Science

HSCI 100 GENERAL HEALTH SCIENCE

Analysis of contemporary health issues with a focus on understanding basic health information, increasing patient engagement with healthcare providers, and preventing disease. The course also covers social factors influencing health outcomes. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area E1

Transfer Credit: CSU (CSU GE Area E1), UC

History

HIST 100 HISTORY OF WESTERN CIVILIZATION I

This course begins with the evolution of the human species and its biological capacity to create "culture" and then continues into the Neolithic Revolution and the birth of some of the first civilizations in the Fertile Crescent. It also includes Bronze Age cultures of the Eastern Mediterranean. Topics include: Mesopotamian civilizations, Ancient Egypt, the Hebrews, Ancient Persia, the Minoans, the Mycenaean Greeks, Archaic and Classical Greece, Alexander the Great and Hellenistic Greece, the rise of Rome (republic and empire), the development and spread of Christianity, the Celts, the Germanic Invasions, Medieval Europe, the Renaissance and Reformation, and the Age of Exploration and Conquest. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2; DSI

Transfer Credit: CSU (CSU GE Area C2; DSI), UC (IGETC Area 3B; Area 4)

C-ID: HIST 170



HIST 101 HISTORY OF WESTERN CIVILIZATION II

This course explores the history of Western Civilization from the late Medieval Era to the creation of contemporary Europe. The focus is on examining and analyzing the social, political, economic, and cultural trajectories of European societies from the 1400s to the post WWII world. Topics include: the late Medieval Era, the Renaissance, the Protestant Reformation, the Scientific Revolution, the Age of Exploration and Conquest, absolutism, constitutionalism, the Enlightenment, the French Revolution, the Age of Revolution in general, the Industrial Revolution, imperialism, World War I, the Russian Revolution, World War II, and post-war Europe. Intellectual history, art history, gender history, and class history will be integrated during each time period. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C2; DSI

Transfer Credit: CSU (CSU GE Area C2; DSI), UC (IGETC Area 3B; Area 4)

C-ID: HIST 180

HIST 104 WORLD HISTORY I

This course explores the origins and development of diverse societies and civilizations of the world from the Paleolithic era through 1500. The focus is on examining and analyzing the ways in which the world's peoples and societies compare, connect and/or diverge. Broad themes and major turning points such as migration, trade, agriculture, urban settlement, and state-building, lead us to raise questions about the nature of the human experience both past and present. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C2; DSI

Transfer Credit: CSU (CSU GE Area C2; DSI), UC (IGETC Area 3B; Area 4)

C-ID: HIST 150

HIST 106 WORLD HISTORY II

This course explores diverse civilizations and societies of the Middle East, Africa, Asia, Europe, Oceania and the Americas from 1500 to the present. The focus is on examining and analyzing the ways in which the world's peoples and societies compare, connect and/or diverge.

Themes such as imperialism, industrialization, and globalization are examined, as well as cross-cutting global phenomena and ideas, such as race and racial difference, nationalism, and feminism. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2; DSI

Transfer Credit: CSU (CSU GE Area C2; DSI), UC (IGETC Area 3B; Area 4)

C-ID: HIST 160

HIST 201 U.S. HISTORY THROUGH 1877

This course explores U.S. history from pre-Columbian times to 1877. The focus is on the varied experiences and cultures of the peoples of North America. Topics covered include Native Americans, European colonization, the American Revolution, the U.S. Constitution and American institutions, slavery and the Civil War, the Mexican American War, and Reconstruction. A further emphasis will be placed upon the identities and of the diverse peoples of British North America and the United States. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C2, D US-1, D US-2; DSI

Transfer Credit: CSU (CSU GE Area C2; DSI, D US-1, D US-2), UC (IGETC Area 3B; Area 4)

C-ID: HIST 130

HIST 202 U.S. HISTORY FROM 1877 TO THE PRESENT

This course explores U.S. history from 1877 to the present day. The focus is on the political, economic, social and cultural forces that have shaped the modern nation and the varied experiences and contributions of the diverse peoples of America. Topics covered include the Gilded Age, "roaring 20s," Great Depression, World Wars, the sixties, the Reagan era, the War on Terror and the Obama presidency. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2, D US-1, D US-2; DSI

Transfer Credit: CSU (CSU GE Area C2; DSI, D US-1, D US-2), UC (IGETC Area 3B; Area 4)

C-ID: HIST 140



HIST 245 RACE, ETHNICITY AND IMMIGRATION IN THE U.S.

Historical introduction to race and the interconnected experiences of diverse racial, ethnic, and immigrant groups. Special attention is paid to the ways in which race and ethnicity have intersected with immigration, class, and gender to shape American institutions, social life, and identities over time. Grassroots struggles for liberation and justice, from early abolitionism to the Immigrant Rights and Black Lives Matter movements, are also examined. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C2, D US-1; DSI

Transfer Credit: CSU (CSU GE Area C2; DSI, D US-1), UC (IGETC Area 3B; Area 4)

HIST 246 HISTORY OF LATINOS IN THE U.S.

Surveys the history and contributions of Latino/Latina/Latinx peoples in the U.S., from pre-Columbian heritage to the present. Explores the impacts of conquest, migration, struggles for social justice, and the formation of Mexican American, Caribbean, Central American, and other Latin American communities and identities. Emphasizes the intersections of race, ethnicity, class, and gender throughout. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2; DSI

Transfer Credit: CSU (CSU GE Area C2; DSI), UC (IGETC Area 3B; Area 4)

HIST 247 WOMEN IN U.S. HISTORY

Surveys the experiences and contributions of diverse women in U.S. social, cultural, economic, and political life, from pre-conquest to the present day. Explores how gender has shaped peoples' lives and opportunities. Intersections of race, class, ethnicity, sexual orientation, and regional variations are emphasized throughout, as are feminist ideas & movements, including women of color feminisms. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2; DSI

Transfer Credit: CSU (CSU GE Area C2; DSI), UC (IGETC Area 3B; Area 4)

HIST 422 MODERN LATIN AMERICA

This course explores and analyzes the diverse histories of Latin American nations and peoples from 1800 to the present. The focus is on the social, political, economic, and cultural developments that have shaped the region. Themes such as nationalism, neocolonialism, dictatorship, revolution, and social and cultural change are explored. Special attention is paid to Latin American relations with the U.S. and migration. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 3B; Area 4)

HIST 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Human Services

HMSV 100 INTRODUCTION TO SOCIAL WORK AND HUMAN SERVICES

An introductory overview of social welfare and social service institutions in the U.S. The course presents an historical perspective of the development of U.S. social work and human services. Special attention is given to the policies and procedures of current social service delivery systems as well as the importance of cultural sensitivity within those settings. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC



HMSV 121 SOCIAL WORK AND HUMAN SERVICES SEMINAR

This course provides the student who is participating in a supervised field experience in a community organization, agency, or institution with a weekly class meeting that provides the academic element to the experiential course offering. The application of concepts gained in the prerequisite or corequisite course to the field experience are emphasized. This course is designed to provide the student with an opportunity to develop skills that would facilitate gaining employment in the human services field. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: HMSV 100

Corequisites: Concurrent enrollment in, HMSV 122

Transfer Credit: CSU

HMSV 122 SOCIAL WORK AND HUMAN SERVICES FIELDWORK

This course offers the student a supervised field experience in a community organization, agency, or institution, allowing the student to apply knowledge and learn new skills outside of the classroom environment. This course is designed to provide the student with an opportunity to observe, practice, and develop skills that would facilitate gaining employment in the human services field. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 96-108 Field Experience

Prerequisites: HMSV 100

Corequisites: Concurrent enrollment in, HMSV 121

Transfer Credit: CSU

HMSV 672 WORK EXPERIENCE EDUCATION: INTERNSHIP

Supervised internship in cooperation with private or public sector employers. Designed to apply knowledge and learn new skills, directly related to the student's program of study, outside of the normal classroom environment. Students must attend one orientation which is offered the first three weeks of each semester. One unit of credit will be earned for each 48-54 hours of paid or unpaid work per semester, with a maximum of 6 units per semester. Students may repeat Work Experience courses within the SMCCCD for credit up to a maximum of 16 total units. The unit limitation applies to any Work Experience Education (any combination of 670, 671 and/or 672 courses) offered within the SMCCCD. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Work Experience

Prerequisites: A minimum of 12 completed units in the occupational discipline.

Transfer Credit: CSU

HMSV 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Humanities

HUM. 650 STUDY ABROAD LIFE AND CULTURE, A HUMANITIES PERSPECTIVE

Explore the cultural elements, including literature, art, art history, drama, music and theater and philosophical movements of a foreign country as part of the Study Abroad Program. Students gain skills in cross-cultural competency as well as specific knowledge and understanding about the host country as they attend lectures, interact with local experts, participate in field trips and take part in cultural events. Students must be enrolled in the Semester Abroad Program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

Individual Sports

INDV 121.1 BADMINTON I

A course designed to provide instruction and practice in the fundamentals of badminton: rules and strategies, grip, strokes, footwork, and court coverage, drills and



competition, tournaments in singles and doubles. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

INDV 121.2 BADMINTON II

Continuation of INDV 121.1. Designed to provide instruction and practice in the fundamentals of badminton at an intermediate level: rules and strategies, grip, strokes, footwork, and court coverage, drills and competition, tournaments in singles and doubles. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: INDV 121.1 or demonstrated skill level.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

INDV 160.1 GOLF I

Techniques, rules, etiquette, and strategy for beginning golf. Practical experience associated with grip, stance, swings relative to iron and wood shots at a beginning level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

INDV 160.2 GOLF II

Technique, rules, etiquette, and strategy for intermediate golf. Practical experience associated with grip, stance, swings relative to iron and wood shots at an intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: INDV 160.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

INDV 160.3 GOLF III

Technique, rules, etiquette, and strategy for advanced intermediate golf. Practical experience associated with

grip, stance, swings relative to iron and wood shots at an advanced intermediate level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: INDV 160.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

INDV 160.4 GOLF IV

Technique, rules, etiquette, and strategy for advanced golf. Practical experience associated with grip, stance, swings relative to iron and wood shots at an advanced level. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: INDV 160.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

INDV 251.1 TENNIS I

Instruction in the fundamental skills of the service, forehand and the backhand strokes; court strategy and the rules of play; testing program in all tennis skills and rules. Includes use of automatic ball machine. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

INDV 251.2 TENNIS II

Continued instruction in the fundamental skills of tennis. Emphasis is placed on singles and doubles strategy including the essence of net play at the intermediate level. Forehand, backhand, and serve are emphasized as offensive and defensive weapons. Competition is included and tournaments are held. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: INDV 251.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*



INDV 251.3 TENNIS III

Continued instruction on the skills of tennis at the advanced intermediate level. Emphasis is placed on ground strokes that utilize top-spin and cut-shots. Serve and volley strategies will be taught. Competition includes singles and doubles tournaments in class. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: INDV 251.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

INDV 251.4 TENNIS IV

Continued instruction on the skills of tennis at the advanced level. Emphasis is placed on doubles strategy including serve, volley and net play as offensive and defensive weapons. Competition is included and tournaments are held. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: INDV 251.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

Interdisciplinary Studies**IDST 150 HONORS RESEARCH SEMINAR**

Introductory research seminar for students currently pursuing an Honors research project. An introduction to research methods used in different disciplines and to scholarly collaboration and communication. This course focuses on formulating a research question, identifying and utilizing sources, constructing and critiquing scholarly arguments, and creating an effective final written and oral product. As students learn about scholarly research, they simultaneously identify and refine their own research topic, engage in scholarly conversations on their work, apply discipline-specific methodologies to their work, and create their own final research product and bibliography. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ENGL 110.

Transfer Credit: CSU, UC

Interior Design**INTD 115 INTRODUCTION TO INTERIOR DESIGN**

Examination of the interior built environment with emphasis on residential design. Elements and principles of residential interior design including factors such as sustainability and accessibility as well as historical and cultural influences. Students develop skills in critical analysis as they design aesthetic interiors that accommodate homeowner needs and values. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 126 CRITICAL THINKING FOR INTERIOR DESIGNERS

Introduction to the analytical and creative tools used by interior designers. The course includes both the study of how interior design has changed over time and hands-on creative expression. In addition, it explores historical aspects of land use, housing discrimination, and the roots of Bay Area architectural and environmental design. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 128 PRESENTATION TECHNIQUES

Oral and visual presentation skills needed in the interior design profession including basic and quick sketch two-dimensional design techniques as well as one- and two-point perspectives. Students develop a professional portfolio and tools for promoting their work using social media. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ARCH 110

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 148 COLOR AND DESIGN

Basic color theories and their application to design. Exploration of how history, culture, the environment,



and psychology inform the use of color. Students design projects applying these theories and influences. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

INTD 150 HISTORY OF INTERIORS I

Examination of the history and design of architecture, interiors, and furniture from ancient Egypt to the 19th Century. Other topics include the influence of historical periods on today's design. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC

INTD 151 HISTORY OF INTERIORS II

Examination of the global, social, cultural, and political influences on design of Western and non-Western architecture, interiors, and furniture from the beginning of the 19th Century to the present. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: INTD 150

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC

INTD 175 SPACE PLANNING AND DESIGN

Introduction to the concept of inclusive design as applied to residential space planning. Emphasis is on designing responsive, adaptable, accessible, and secure spaces. Students learn to apply codes and sustainable design principles for residential and commercial environments. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ARCH 110 and INTD 115

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 250 PROFESSIONAL PRACTICES FOR INTERIOR DESIGNERS

Interior design business ethics, practices, management tools, and regulations, offering input from professional designers in various practices. The course covers liability issues, codes, and laws in residential and non-residential practices. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: INTD 115

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 260 OVERVIEW OF LIGHTING DESIGN

Overview of the study of interior lighting as it relates to residential and commercial projects including terminology, lamps, fixtures, lighting plans, design techniques, codes and energy efficient lighting practices and regulations. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ARCH 110

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 272 KITCHEN AND BATH DESIGN

Basic principles of kitchen and bath design and space layout including drawings such as floor plans and elevations to scale using Computer-Aided Design (CAD) and following the National Kitchen and Bath Association guidelines (NKBA). Course covers current products and materials including cabinetry, appliances, finish materials, barrier-free design, and responding to changing family patterns. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ARCH 110 and INTD 175 and INTD 360 or INTD 361

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 276 ADVANCED KITCHEN AND BATH DESIGN

Design kitchens and baths applying local codes, California Title 24, and industry standards using the National Kitchen and Bath Association (NKBA) planning guidelines as well as



inclusive and sustainable design. Students prepare NKBA construction plans for kitchen and bath projects using Computer-Aided Design (CAD). *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: INTD 272 and INTD 360 or INTD 361

Transfer Credit: CSU

INTD 300 STUDIO I: HOME STAGING

The current professional practices used to prepare a home for sale including attention to detail, digital and hand sketching illustrations, business practices, and residential and commercial staging. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: INTD 175 and INTD 250

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 301 PORTFOLIO DEVELOPMENT

Portfolio Development is the culminating course for students earning certificates of achievement and associate of arts degrees in Interior Design. Emphasis is placed on selecting several pieces of original work to build a professionally presented digital portfolio. This includes floor plans and elevations, computer-aided design (CAD) drawings, 3D computer designs, lighting plans, perspective sketches, and hand renderings. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: INTD 128 and INTD 175 and INTD 360 or INTD 361

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 357 KITCHEN AND BATH SYSTEMS

Overview of the household systems that support kitchen and bath design such as: heating, ventilation, and air conditioning (HVAC), plumbing, and lighting. Codes and Title 24 related to building systems are reviewed. Drawings include typical installation details specifying current products and systems based on code and green building initiatives. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ARCH 110

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 360 CAD APPLICATIONS FOR INTERIOR DESIGNERS

Using Computer Assisted Design (CAD) to develop floor plans and elevations in accordance with interior design standards, principles, and techniques. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: ARCH 110

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 361 CHIEF ARCHITECT FOR INTERIOR DESIGNERS

Using Chief Architect software to create 3D architectural home design including floor plans, elevations, and construction documents that follow industry standards and techniques. Includes tools for photo-realistic renderings and virtual tours. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: ARCH 110

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 367 3D MODELING SKETCHUP FOR INTERIOR DESIGNERS

How to produce drawings of residential and commercial spaces showing three-dimensional models of structures, interiors, and construction details. Includes portfolio preparation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: ARCH 110

Recommended: Eligibility for ENGL 100.



Transfer Credit: CSU

INTD 400 PRINCIPLES OF SUSTAINABLE DESIGN

The course covers sustainable design elements of residential interiors as well as local and state sustainable design policies. It includes home energy assessments in existing residential structures using diagnostic tools such as infrared cameras, moisture meters, and video cameras. Field trips required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU, UC

INTD 450 MATERIALS AND FINISHES

Guidelines for selecting interior finish materials and fabrics for residential and non-residential applications. Use of local and state codes including environmental and sustainability requirements for residential projects. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

INTD 672 WORK EXPERIENCE EDUCATION: INTERNSHIP

Supervised internship in cooperation with private or public sector employers. Designed to apply knowledge and learn new skills, directly related to the student's program of study, outside of the normal classroom environment. Students must attend one orientation which is offered the first three weeks of each semester. One unit of credit will be earned for each 48-54 hours of paid or unpaid work per semester, with a maximum of 6 units per semester. Students may repeat Work Experience courses within the SMCCCD for credit up to a maximum of 16 total units. The unit limitation applies to any Work Experience Education (any combination of 670, 671 and/or 672 courses) offered within the SMCCCD. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Work Experience

Prerequisites: A minimum of 12 completed units in the occupational discipline.

Transfer Credit: CSU

INTD 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Kinesiology, Athletics, and Dance

(See also [Aquatics](#), [Dance](#), [Fitness](#), [Individual Sports](#), [Kinesiology](#), [Team Sports](#), and [Varsity Sports](#))

The majority of courses offered by the San Mateo County Community College District are now leveled to show progression from the most fundamental (level 1) to the most advanced (level 4). Course levels can be identified by a .1, .2, .3, or .4 system or by the course title. Course levels may be scheduled simultaneously. Students are advised to enroll initially at the fundamental level (.1) regardless of previous experience and be placed at the appropriate level based on instructor assessment. Adapted Physical Education and intercollegiate sports related courses are not affected by the repeatability legislation.

Kinesiology activity courses are subject to repeatability limitations. Students are now limited to a maximum of four courses per family listed below. If there is more than one course in a particular family, a student may only enroll in a maximum of four total courses within that family. After four courses within a family have been taken, a student has the option to audit should they wish to continue enrolling in courses within that family. Students who audit do not count toward meeting local minimum enrollment requirements. Thus, a class may be cancelled if enough credit seeking students are not enrolled no matter how many students wish to audit. For information about how to audit, students should refer to the audit policy in the catalog.

A course previously taken by a student, prior to course leveling within the identified family will count as a repeat and limit future enrollments of courses within that family to a maximum of four combined. Below is a matrix which identifies the previous courses (based on the 2012-2013 catalog) and the equivalent with levels. This limitation on enrollment applies to all coursework attempted by the student. Students not having previously taken a Kinesiology or Dance activity course may have the opportunity to enroll



in courses within a particular family for a maximum of four times.

Kinesiology

KINE 101 INTRODUCTION TO KINESIOLOGY

Explores the broad spectrum of kinesiology as an academic discipline, fundamental concepts and meaning of movement/physical activity, diversity of humans as moving beings, professional/career options, current/social issues, personal characteristics and professional responsibilities. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area E1

Transfer Credit: CSU (CSU GE Area E1)

C-ID: KIN 100

KINE 105 STRESS MANAGEMENT

The stress process and its relation to health and disease, lifestyle, and the sociocultural environment. Analysis of physiological, psychological, sociological, and environmental parameters of stress, emphasizing development of personalized stress management strategies to enhance academic, personal, and social development across the lifespan. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area E1

Transfer Credit: CSU (CSU GE Area E1), UC

KINE 109 LIFETIME FITNESS AND NUTRITION

This course is designed to help students identify the complex relationships between diet, physical fitness, and disease. The course includes a review of physical fitness guidelines and basic nutritional guidelines for optimum health and wellness throughout various stages of the lifespan. Personal lifestyle and behavior changes are emphasized as well as the impact poor health and wellness have on our society as a whole. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area E1

Transfer Credit: CSU (CSU GE Area E1), UC*

KINE 119 FIRST AID/ADULT AND PEDIATRIC CPR/AED

The Adult and Pediatric First Aid/CPR/AED course incorporates the latest science and teaches students to recognize and care for a variety of first aid emergencies such as burns, cuts, scrapes, sudden illnesses, head, neck, back injuries, heat and cold emergencies and how to respond to breathing and cardiac emergencies to help victims of any age - adults (about 12 years and older) and pediatric (infants and children up to 12 years of age). Students who successfully complete this course receive a certificate for Adult and Pediatric First Aid/CPR/AED through the American Red Cross valid for two years. Because the certificate for Adult CPR/AED is valid for two years, a student may file a Petition to Repeat KINE 119 if the course was completed more than 4 semesters ago. This is not an activity class. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

KINE 137 STUDENT-ATHLETE SKILLS FOR SUCCESS, FIRST YEAR

Designed to introduce the first year student-athletes to the demands of collegiate academics. This course aids in the introduction to the common challenges of students participating in competitive collegiate sports; including student-athlete schedule management, and teacher-player communication. Student-athletes participate in athletic planning and academic monitoring along with California Community College Athletic Association eligibility requirements. Note: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Transfer Credit: CSU

KINE 138 STUDENT-ATHLETE SKILLS FOR SUCCESS, SECOND YEAR

Designed for the second-year student-athletes with an emphasis on athletic and academic transfer requirements. This course aids in further exploration of the common challenges of students participating in competitive collegiate sports during their second year of competition,



including student athlete schedule management, teacher-player communication, leadership, and athletic transfer requirements in congruence with California Community College Athletic Association, National Association Intercollegiate Athletics, and National Collegiate Athletics Association bylaws and guidelines. Student athletes participate in athletic planning and academic monitoring. Note: This course is not activity-based and is not applicable to the specific area requirement in Physical Education for the Associate Degree. *Grade Option (Letter Grade or Pass/No Pass). Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: KINE 137

Transfer Credit: CSU

Learning Center

LCTR 100 EFFECTIVE TUTORING AND PRACTICUM

Explores a variety of procedures for understanding and utilizing effective peer tutoring practices. Under guided supervision, students use classroom experiences to connect theory to practice. Communication and study strategies, course specific tutoring expertise, and techniques for working with students from diverse cultural and academic backgrounds are emphasized. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 8-9 Lecture; 24-27 Lab; 16-18 Homework

Transfer Credit: CSU

LCTR 139 THE RESEARCH PAPER FROM A TO Z

This course guides students through the process of developing a research paper including formulating a topic and preliminary thesis, finding and integrating sources, drafting and revising, ethical use of sources material, and documentation of resources. The course may be taken either as preparation for future research paper assignments, or in conjunction with a current research assignment in another class. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

Transfer Credit: CSU

LCTR 140 PROFESSIONAL WRITING

This self-paced course provides instruction and practice for writing in various professional capacities. From planning business documents to letters, proposals, and memos, this course helps individuals become more professional

in their written communication. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

LCTR 151 HEALTH SCIENCE VOCABULARY

This self-paced course uses listening modules, and other media, to help the student learn to pronounce and remember more than one hundred roots and affixes that thousands of words used in medical science terminology are derived. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Transfer Credit: CSU

LCTR 698 SUPERVISED TUTORING/ACADEMIC ASSISTANCE

Students receive academic support such as tutoring or supplemental instruction in areas of academic need. *No Grade Awarded (Non-Credit Course). Units do not apply toward AA/AS degree. Non-Credit.*

Units: 0

Hours/semester: 48-54 Lab

Corequisites: concurrent enrollment in course in which tutorial/academic assistance is being provided.

LCTR 810 STUDY SKILLS

Designed to prepare students for academic success in college, this course teaches student success strategies through a variety of activities and assignments that encourage and promote academic success. This course covers important and practical study techniques including time management, note taking, textbook studying, memory enhancement, and test taking. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 48-54 Lab

LCTR 822 GRAMMAR TROUBLE SPOTS I

This self-paced course helps students to improve their grammar through carefully constructed exercises and practice. Course focuses common mistakes in English grammar and how to avoid them. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*



Units: 1

Hours/semester: 48-54 Lab

LCTR 823 GRAMMAR TROUBLE SPOTS II

Continuation of LCTR 822. This intermediate level self-paced course helps students learn the language skills necessary to understand and recognize the most common errors in grammatical forms, meaning and use. After explanations and examples, the student works through troublesome areas with ample practice of each grammatical structure. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: LCTR 822 or equivalent

LCTR 840 VOCABULARY IMPROVEMENT I

This self-paced, workbook-based course helps students build vocabulary skills by learning important basic words. The course offers practice and reinforcement through various types of exercises including matching words with definitions, choosing the correct word in context, use of prefixes and suffixes, and properly identifying synonyms and antonyms. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 48-54 Lab

LCTR 841 VOCABULARY IMPROVEMENT II

This self-paced, workbook-based course, the second in a series of four increasingly challenging vocabulary improvement courses, helps students build vocabulary skills by learning important basic words. The course offers practice and reinforcement through various types of exercises including matching words with definitions, choosing the correct word in context, and properly identifying synonyms. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 48-54 Lab

LCTR 842 VOCABULARY IMPROVEMENT III

This self-paced, workbook-based course, the third in a series of four increasingly challenging vocabulary improvement courses, helps students build vocabulary skills by learning important basic words. The course offers practice and reinforcement through various types of exercises including matching words with definitions,

choosing the correct word in context, and properly identifying synonyms. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 48-54 Lab

LCTR 843 VOCABULARY IMPROVEMENT IV

This self-paced, workbook-based course, the fourth in a series of four increasingly challenging vocabulary improvement courses, helps students build vocabulary skills by learning important basic words. The course offers practice and reinforcement through various types of exercises including matching words with definitions, choosing the correct word in context, and properly identifying synonyms. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 48-54 Lab

Library Science

LIBR 100 INTRODUCTION TO INFORMATION RESEARCH

Introduction to information and library research applicable to any major, profession, or daily life. Students learn how to recognize the need for information, develop a search strategy, find and evaluate resources, synthesize and integrate the information they find, and use outside resources ethically through the use of citations. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Recommended: Eligibility for ESL 400

Transfer Credit: CSU, UC*

Linguistics

LING 200 INTRODUCTION TO LINGUISTICS: A SURVEY OF LANGUAGE

Equivalent to ENGL 200. The origin, development, acquisition, and evolution of spoken and written languages are studied in this course. Topics include phonetics/phonology, morphology, syntax, semantics, and pragmatics. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework



Recommended: Eligibility for Eligibility for ENGL 100 or ENGL 105.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

Literature

LIT. 151 INTRODUCTION TO SHAKESPEARE I

Equivalent to DRAM 151. Study of a chronological sequence of Shakespeare's plays, including works in different genres, and a selection of his sonnets and longer poetry. Reading, discussion, critical papers. The course also covers Shakespeare's role in the development of English language and literature, and his connection to contemporary political and social issues. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 200 AMERICAN LITERATURE

Survey of literature by and about diverse Americans from 1850 to the present. Includes canonical and lesser-known works of fiction and non-fiction that shapes a multidimensional perspective of the United States. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 135

LIT. 205 NEW VOICES IN WORLD LITERATURE

This course is a comparative study of selected works, in translation and in English, of literature around the world, including Europe, the Middle East, Asia, and other areas, from the mid or late seventeenth century to the present. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 145

LIT. 231 SURVEY OF ENGLISH LITERATURE I

Surveys the literature written in the British Isles up to the last quarter of the 18th century. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 160

LIT. 232 SURVEY OF ENGLISH LITERATURE II

Survey of major English writers from the late eighteenth century to contemporary British and post-colonial periods. Acquaints students with the most important literary genres practiced in these eras, and students read and discuss a variety of texts that reveal cultural and political issues of the time, such as the rise of feminism, the issue of slavery, and the rise of British colonialism. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: ENGL 165

LIT. 252 WOMEN WRITERS: MULTICULTURAL PERSPECTIVES

A survey of the influence of women in a global society through an examination of fiction and non-fiction by women writers. Explores the changes in women's history; the development of women's roles, globally and in American culture; and the significance of women within society. The literature sampled emphasizes a comparative approach toward analyzing writing by women from diverse



backgrounds throughout history. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 266 BLACK LITERATURE

A survey of Black American literature from mid 18th century to the present. The literature sampled explores the development of this ethnic group; analyzes the significance of African Americans to the formation of this nation; and includes: autobiographical works, poetry, short stories, folk tales, novellas, films, music, and art. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 371 MEXICAN-AMERICAN LITERATURE

Study the historical origins and evolving nature of Mexican-American Literature. Examine what diverse authors who identify as Mexican, Mexican-American or Chicano have to say about the history, culture and socio-political issues of Mexican-Americans. Literature of more recent immigrants from Mexico will also give us an opportunity to analyze the ever-changing themes and characters in Mexican-American Literature. Various points of view are examined, including those of feminists and LGBTQ+ communities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 372 MYTH AND FOLKLORE OF LA RAZA

Explore the purpose and meaning of myth and folklore within the context of the indigenous, Mexican, Mexican-American, and other mestizo cultures found in Mexico, other parts of Latin America, and the Southwest. Course work involves analyzing myths and folklore that originate from the indigenous of the Americas, the Spanish and the mestizos of Latin American culture. Students also study the effects of these myths and folklore on contemporary values. The course examines the perspectives, values, and cultures of Native American, Spanish, and mestizo people of Latin America and the United States. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 373 LATIN AMERICAN LITERATURE IN TRANSLATION

In this course students study Latin American literature written in English. An emphasis is placed on contemporary short stories, poems, and novels as well as films. In order to fully appreciate these texts, students learn about relevant historical, political, and social issues. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

LIT. 441 SURVEY OF FILM

Survey of film masterpieces from the early 1900's to the present with emphasis on structure of film and the technique of film making. Screening of films followed by discussion and reading exercise students' abilities to think, speak and write critically about films and their historical context. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework



Recommended: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C1, C2

Transfer Credit: CSU (CSU GE Area C1, C2), UC (IGETC Area 3A)

LIT. 442 FILM STUDY AND APPRECIATION

Film study and appreciation with a focus on one area of study: i.e., one period, genre, director, national cinema, chosen from film history. Screening of films followed by discussion, reading, and writing, with emphasis on students' abilities to think, speak and write critically about films. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C1, C2

Transfer Credit: CSU (CSU GE Area C1, C2), UC (IGETC Area 3A)

LIT. 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Management

MGMT 100 INTRODUCTION TO BUSINESS MANAGEMENT

Introduction to the principles and functions of contemporary business management. Topics include: planning, organizing, staffing, controlling and decision-making. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

Mathematics

MATH 120 INTERMEDIATE ALGEBRA

This is the second course in a 2-part series covering elementary and intermediate algebra and is a continuation of MATH 110. Topics include a review of equations, absolute value, lines and graphs, functions, rational exponents, radical expressions and equations, quadratic equations and graphs, exponential functions, and logarithmic functions. Additional topics may include conic sections and systems of equations. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Math Competency

MATH 125 ELEMENTARY FINITE MATHEMATICS

Topics include linear functions, system of linear equations, inequalities, matrices, mathematics of finance, linear programming, set theory, counting theory, and probability. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area A3; Math Competency

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: MATH 130

MATH 130 ANALYTICAL TRIGONOMETRY

Covers trigonometric functions of angles and real numbers, graphs of the trigonometric functions, trigonometric equations, the proof and uses of trigonometric identities, solving triangles, inverse functions, and complex numbers. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework



Prerequisites: Successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area A3; Math Competency

Transfer Credit: CSU (CSU GE Area B4)

C-ID: MATH 851

MATH 145 LIBERAL ARTS MATHEMATICS

This course is designed for majors with no specific math requirement. The goal is to develop in students an appreciation for the beauty and utility of mathematics. Topics include logic, problem solving, probability, statistics, geometry, mathematics of finance, systems of numeration, mathematical modeling, and computers. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Math Competency

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

MATH 150 MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS

Intended for future elementary school teachers. Topics covered include elementary set theory, numeration, number systems and operations, and elementary number theory, with emphasis on problem solving. This is the first of a two- or three-course math content sequence that most universities now require for teachers. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area A3; Math Competency

Transfer Credit: CSU (CSU GE Area B4), UC

C-ID: MATH 120

MATH 200 ELEMENTARY PROBABILITY AND STATISTICS

This course presents the basic concepts underlying statistical methods and covers descriptive statistics, probability, probability distributions, hypothesis testing, estimates and sample sizes, correlation and regression,

chi-square tests, analysis of variance, and nonparametric statistics. Technology is integrated into the course. Applications of statistics to business, life sciences, social sciences, psychology, and other areas are included. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: Successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area A3; Math Competency

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: MATH 110

MATH 225 PATH TO CALCULUS

Equivalent to MATH 130 and 222. This course combines the topics of trigonometry and pre-calculus and is designed to fulfill the requirements of both courses in a single course. Topics include a study of functions, function families, their properties and transformations, compositions, inverses and combinations, complex numbers, and vectors. Function families include linear, trigonometric, logarithmic, exponential, polynomial, power, and rational. Multiple representations of functions are emphasized. *Letter Grade Only. Degree Credit.*

Units: 6

Hours/semester: 96-108 Lecture; 192-216 Homework

Prerequisites: Successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area A3; Math Competency

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: MATH 955

MATH 241 BUSINESS CALCULUS I

The first class in a two semester calculus sequence designed for business majors. Topics include a review of functions, the derivative, applications of the derivative, and an introduction to the integral. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: Successful completion of Intermediate Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area A3; Math Competency

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)



C-ID: MATH 140

MATH 243 BUSINESS CALCULUS II WITH TRIGONOMETRY

The second half of a two-semester calculus sequence designed for business majors. Topics include the integral, techniques of integration, an introduction to trigonometry, multivariable calculus, and differential equations. Equivalent to MATH 242. *Letter Grade Only. Degree Credit.*

Units: 4**Hours/semester:** 64-72 Lecture; 128-144 Homework**Prerequisites:** MATH 241**Recommended:** Eligibility for ENGL 100.**AA/AS Degree Requirements:** Area A3; Math Competency**Transfer Credit:** CSU (CSU GE Area B4), UC* (IGETC Area 2A)**MATH 251 ANALYTICAL GEOMETRY AND CALCULUS I**

This course is an introduction to calculus and analytic geometry including limits, continuity of functions, definition of differentiation, derivation of formulas, applications, anti-differentiation and the fundamental theorem of calculus. *Letter Grade Only. Degree Credit.*

Units: 5**Hours/semester:** 80-90 Lecture; 160-180 Homework

Prerequisites: MATH 222 (offered at CSM or Skyline) or MATH 225 or appropriate score on the College Placement Test or other multiple measures assessment.

AA/AS Degree Requirements: Area A3; Math Competency**Transfer Credit:** CSU (CSU GE Area B4), UC* (IGETC Area 2A)**C-ID:** MATH 210; MATH 900S (both MATH 251 + 252)**MATH 252 ANALYTICAL GEOMETRY AND CALCULUS II**

This course is the second in a series of calculus and analytic geometry. This course covers the Fundamental Theorem of Calculus, antiderivatives, integral applications and techniques, power series and infinite series topics such as series testing and analysis of Taylor and power series. *Letter Grade Only. Degree Credit.*

Units: 5**Hours/semester:** 80-90 Lecture; 160-180 Homework**Prerequisites:** MATH 251**Recommended:** Eligibility for ENGL 100.**AA/AS Degree Requirements:** Area A3; Math Competency**Transfer Credit:** CSU (CSU GE Area B4), UC* (IGETC Area 2A)

C-ID: MATH 220; MATH 900S (both MATH 251 + 252)

MATH 253 ANALYTIC GEOMETRY AND CALCULUS III

This course is the third in a series of calculus and analytic geometry. This is the calculus of multivariable functions. The course covers topics in vectors, partial derivatives, double and triple integrals, line integrals and vector analysis theory such as Green's, Stokes', and Gauss' Theorems. *Letter Grade Only. Degree Credit.*

Units: 5**Hours/semester:** 80-90 Lecture; 160-180 Homework**Prerequisites:** MATH 252**Recommended:** Eligibility for ENGL 100.**AA/AS Degree Requirements:** Area A3; Math Competency**Transfer Credit:** CSU (CSU GE Area B4), UC (IGETC Area 2A)**C-ID:** MATH 230**MATH 270 LINEAR ALGEBRA**

Application of vectors and matrices to systems of linear equations, linear transformations, eigenvectors and eigenvalues, vector spaces and inner products. *Letter Grade Only. Degree Credit.*

Units: 3**Hours/semester:** 48-54 Lecture; 96-108 Homework**Prerequisites:** MATH 252**Recommended:** Eligibility for ENGL 100.**AA/AS Degree Requirements:** Area A3; Math Competency**Transfer Credit:** CSU (CSU GE Area B4), UC (IGETC Area 2A)**C-ID:** MATH 250; MATH 910S (both MATH 270 + 275)**MATH 275 ORDINARY DIFFERENTIAL EQUATIONS**

An introduction to ordinary differential equations including quantitative and qualitative methods of solving them; the use of differential equations in various fields; theoretical aspects of differential equations such as establishing when solutions exist; and techniques for obtaining solutions including series solutions, singular points, Laplace transforms, and linear systems. *Letter Grade Only. Degree Credit.*

Units: 3**Hours/semester:** 48-54 Lecture; 96-108 Homework**Prerequisites:** MATH 253**Recommended:** Eligibility for ENGL 100.**AA/AS Degree Requirements:** Area A3; Math Competency

Transfer Credit: CSU (CSU GE Area B4), UC (IGETC Area 2A)

C-ID: MATH 240; MATH 910S (both MATH 270 + 275)

MATH 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

MATH 800 JUST-IN-TIME SUPPORT FOR ELEMENTARY PROBABILITY AND STATISTICS

A review of the core prerequisite skills, competencies, and concepts needed in statistics. Intended for students who are concurrently enrolled in MATH 200: Elementary Probability and Statistics, at Cañada College. Topics include concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. Concepts are taught through the context of descriptive data analysis. Additional emphasis is placed on solving and graphing linear equations and modeling with linear functions. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: Appropriate score on the College Placement Test or other multiple measures assessment.

Corequisites: Concurrent enrollment in MATH 200

MATH 825 JUST-IN-TIME SUPPORT FOR PATH TO CALCULUS

A review of the core prerequisite skills, competencies, and concepts needed in pre-calculus. Intended for majors in science, technology, engineering, and mathematics who are concurrently enrolled in MATH 225, Path to Calculus, at Cañada College. Topics include: a review of computational skills developed in intermediate algebra, factoring, operations on rational and radical expressions, absolute value equations and inequalities, exponential and logarithmic expressions and equations, conic sections,

functions including composition and inverses, an in-depth focus on quadratic functions, and a review of topics from geometry. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: Appropriate score on the College Placement Test or other multiple measures assessment.

Corequisites: Concurrent enrollment in MATH 225

MATH 841 JUST-IN-TIME SUPPORT FOR BUSINESS CALCULUS I

A review of the core prerequisite skills, competencies, and concepts needed in college algebra. Intended for business or other majors who are concurrently enrolled in MATH 241, Business Calculus I, at Cañada College. Topics include: a review of computational skills developed in intermediate algebra, factoring, exponential and logarithmic expressions and equations, and an in-depth focus on quadratic functions. A graphing calculator is required. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: Appropriate score on the College Placement Test or other multiple measures assessment.

Corequisites: Concurrent enrollment in, MATH 241

MATH 851 JUST IN TIME SUPPORT FOR CALCULUS I

This support course for Calculus I reviews the core prerequisite skills, competencies, and concepts needed in calculus. It is intended for majors in science, technology, engineering, and mathematics who are concurrently enrolled in Calculus 1. Topics include computational skills developed in intermediate algebra, trigonometry, and precalculus, as well as strategies for succeeding in math courses. *Pass/No Pass Only. Units do not apply toward AA/AS degree.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Corequisites: MATH 251



Medical Assisting

MEDA 100 INTRODUCTION TO MEDICAL ASSISTING

Duties and responsibilities of a medical assistant, medical administrative assistant, and billing specialist in a physician's office, clinic, hospital or other medical facility. Emphasizes desirable personality traits and human relationships as well as medical ethics, specialties in the medical field, and office maintenance. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

Transfer Credit: CSU

MEDA 110 MEDICAL TERMINOLOGY

Develop a medical vocabulary that covers diagnosis, disease processes, pathology, anatomy, and body systems. Includes abbreviations, symbols, spelling, and pronunciation. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

Transfer Credit: CSU

C-ID: HIT 103 X

MEDA 115 INTRODUCTION TO ELECTRONIC HEALTH RECORD

Introduction to electronic health record and learning the skills required of medical scribes and editors. Electronic entering of medical letters, reports and forms. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CBOT 415 or equivalent skill level, and, appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

Transfer Credit: CSU

MEDA 120 CLINICAL PROCEDURES I

Patient intake and preparation, examination room techniques, asepsis and sterilization procedures, laboratory

procedures and specimen collection, taking vital signs, and performing electrocardiograms. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: BIOL 130, MEDA 100, MEDA 110, MEDA 140 and MEDA 150

Transfer Credit: CSU

MEDA 121 CLINICAL PROCEDURES II

Dosage calculation, exposure control, disposal of biohazard waste, administering medications, injections, microbiology, venipuncture, and emergency medical procedures. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MEDA 120 and MEDA 190

Transfer Credit: CSU

MEDA 140 IMPLEMENTATION OF ELECTRONIC HEALTH RECORD

Electronic scribing/editing of patient medical chart progress notes, history and physicals, letters, consultations, surgical and autopsy reports, and discharge summaries from different aural modes. Course includes analyzing, editing, proper documentation, and compliance requirements for medical scribes and medical editors. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MEDA 110 and MEDA 115

Transfer Credit: CSU

MEDA 150 MEDICAL OFFICE PROCEDURES

Fundamental office procedures applied to the medical field. Decision-making, setting priorities, finding information, coping with interruptions, and producing under pressure in medical office simulations. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Completion of, or concurrent enrollment in, MEDA 100 and MEDA 110

Transfer Credit: CSU



MEDA 160 MEDICAL INSURANCE PROCEDURES

Covers Blue Cross, Blue Shield, Medicare, Medi-Cal, The electronic preparation of medical claims , coding, billing, and bookkeeping of insurance claims for insurers including Blue Cross, Blue Shield, Medicare, Medi-Cal, and Worker's Compensation. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: CBOT 415 or equivalent

Transfer Credit: CSU

MEDA 164 CPT (CURRENT PROCEDURAL TERMINOLOGY) BEGINNING CODING

Basic coding principles of medical procedures according to Current Procedural Terminology (CPT). Use of CPT, modifiers, appendices, and preparation of documents. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

MEDA 165 CPT (CURRENT PROCEDURAL TERMINOLOGY) INTERMEDIATE CODING

Continuation of MEDA 164. Intermediate-level principles and philosophy of coding logic according to CPT (Current Procedural Terminology). Emphasizes the understanding of terms and processes. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: Completion of, or current enrollment in MEDA 164

Transfer Credit: CSU

MEDA 166 CPT (CURRENT PROCEDURAL TERMINOLOGY) ADVANCED CODING

Continuation of MEDA 165. Advanced principles and philosophy of coding logic according to CPT (Current Procedural terminology). Emphasizes the understanding of terms and process. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: Completion of, or concurrent enrollment in, MEDA 165

Transfer Credit: CSU

MEDA 167 ICD (INTERNATIONAL CLASSIFICATION OF DISEASES)-10-CM (CLINICAL MODIFICATION) BEGINNING CODING

Development of nomenclature and classification of diseases. Basic coding principles of diseases and symptoms according to ICD-10-CM(International Classification of Diseases-10 and Clinical Modification) with emphasis on the coding of medical records. Use of indexes, sequencing of code numbers, and preparation of documents to increase competency. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Transfer Credit: CSU

MEDA 168 ICD (INTERNATIONAL CLASSIFICATION OF DISEASES)-10-CM (CLINICAL MODIFICATION) INTERMEDIATE CODING

Intermediate-level principles and philosophy of coding logic according to ICD-10-CM((International Classification of Diseases)-10-CM (Clinical Modification). Emphasizes the use of UHDDS(The Uniform Hospital Discharge Data Set, which is the core data set for inpatient admissions and discharges for Medicare and Medicaid programs), source documents, multiple coding, sequencing, Z codes, tables, neoplasms, and mental disorders. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: Completion of, or concurrent enrollment in MEDA 167

Transfer Credit: CSU

MEDA 169 ICD (INTERNATIONAL CLASSIFICATION OF DISEASES)-10-CM (CLINICAL MODIFICATION) ADVANCED CODING

Advanced-level principles and philosophy of coding logic according to ICD-10-CM((International Classification of Diseases)-10-CM (Clinical Modification). Emphasizes diseases by body systems, complications, injuries, and adverse effects of drugs. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: Completion of, or concurrent enrollment in, MEDA 168

Transfer Credit: CSU



MEDA 190 INTRODUCTION TO PHARMACOLOGY

Designed for medical assistants, medical scribes and other allied health professionals. Includes general principles of drug use, knowledge of the most commonly used drugs and regulations for controlled drug usage. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 145

Transfer Credit: CSU

MEDA 672 WORK EXPERIENCE EDUCATION: INTERNSHIP

Supervised internship in cooperation with private or public sector employers. Designed to apply knowledge and learn new skills, directly related to the student's program of study, outside of the normal classroom environment. Students must attend one orientation which is offered the first three weeks of each semester. One unit of credit will be earned for each 48-54 hours of paid or unpaid work per semester, with a maximum of 6 units per semester. Students may repeat Work Experience courses within the SMCCCD for credit up to a maximum of 16 total units. The unit limitation applies to any Work Experience Education (any combination of 670, 671 and/or 672 courses) offered within the SMCCCD. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Work Experience

Prerequisites: MEDA 120 and a minimum of 12 units in the occupational discipline.

Transfer Credit: CSU

MEDA 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Meteorology**METE 100 METEOROLOGY - WEATHER AND CLIMATE**

Introduction to the science of the Earth's atmosphere as a system with an emphasis on the physical processes that change our atmosphere in the short term and throughout Earth's history. Evaluation of the atmosphere using the scientific method is emphasized throughout the course. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B1

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

C-ID: GEOG 130

Multimedia, Art, and Technology

(See [Digital Art & Animation](#))

Music**MUS. 100 FUNDAMENTALS OF MUSIC**

Explore the cultural basis and historical context of diverse musical styles. Reflect on music notation as a problem solving approach in musical expression using historically significant examples. Learn the basics of music notation in the historical context of the expressive needs that drove the evolution of this system. Go from sound to symbol and symbol to sound by reading pitch and rhythm notation, sight-singing and ear training. Use music theory (scales and chords) to harmonize simple melodies. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: MUS 110

MUS. 120 SONGWRITING WORKSHOP I

Using a collaborative workshop format, the course explores how to combine lyrics, melody, harmony, and form to create songs. Various techniques are used to get started on lyrics, turn lyrics into tunes, and find apt harmonies and forms for the student's new musical creations. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*



Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

Transfer Credit: CSU

MUS. 202 MUSIC APPRECIATION

Learn about musical terms and ideas and apply that knowledge to many types of music such as popular, classical, jazz, and other forms of music from around the world. Consider different ways of listening to music and learn about the different meanings music can have in entertainment, history, ritual, film and other contexts. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: MUS 100

MUS. 210 HISTORIES OF POPULAR MUSIC AND ROCK

This course explores the various intersections of music and American culture in the blues, rock, heavy metal, jazz, soul, R&B, disco and dance music, and hip-hop. The idea of a critical canon, in tension with best-seller lists, is considered. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

MUS. 215 MUSIC, CULTURE AND HISTORY

Explores the evolution of musical styles in the context of cultural expression and social change. Includes a wide range of European music styles and genres across history as well as American jazz. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

MUS. 240 LATIN AMERICAN MUSIC

Learn about the rhythms and varieties of music in Latin America and the cultural roots that nurture this exciting form of expression. Music from the Caribbean and South,

Central and North America is covered, including genres such as corridos, son, rumba, and tangos. The integral role of Latin influences in the music of the USA and ethnic identities is highlighted. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

MUS. 250 WORLD MUSIC

Survey of selected listening and readings about cultures such as India, China, Japan, Indonesia, Europe, North America, and Africa. Students learn to use basic musical terminology in describing that music, and to relate music behaviors to the cultural contexts that surround them. Equal emphasis is placed on music and culture. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

MUS. 275 HISTORY OF JAZZ

The development of jazz from both a musical and sociological perspective. Topics include musical elements, vocal and instrumental ensembles, artistic values, and the role of jazz in our culture. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

MUS. 301 PIANO I

Applied music course covering the basics of piano playing. Students are taught piano playing technique, to read music, and to play musically. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Transfer Credit: CSU, UC

MUS. 302 PIANO II

Continuation of MUS. 301. Piano playing at an advanced beginner level covering the foundations of piano technique,



the ability to play musically, and the learning of various piano pieces. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Prerequisites: MUS. 301 or equivalent.

Transfer Credit: CSU, UC

MUS. 303 PIANO III

Continuation of MUS 302. This course in applied music emphasizes the basics of piano playing at an intermediate level of difficulty. Students develop further the foundations of piano technique and the ability to play musically, which were begun in Piano I and II, and expand their range of pieces. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Prerequisites: MUS. 302 or equivalent.

Transfer Credit: CSU, UC

MUS. 304 PIANO IV

Continuation of MUS 303. This course in applied music emphasizes the basics of piano playing at an intermediate to advanced level. Students develop further the foundations of piano technique, the ability to play musically, and their range of pieces. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Prerequisites: MUS. 303 or equivalent.

Transfer Credit: CSU, UC

MUS. 371 GUITAR I

Techniques of guitar performance and reading music to enable beginning students to play compositions written for the guitar. Students must supply their own instruments. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Transfer Credit: CSU, UC

MUS. 372 GUITAR II

Continuation of MUS. 371. This course covers the techniques of playing the guitar and making music at the intermediate level. Students must supply their own instruments. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Prerequisites: MUS. 371

Transfer Credit: CSU, UC

MUS. 373 GUITAR III

Continuation of MUS. 372. Further study of moveable chord and scale structure (CAGED), intermediate/advanced strumming and fingerpicking patterns, intermediate/advanced theory (scale, secondary dominants, and motif development), improvisation, arpeggios and reading music. Emphasis on American music. Both individual and group instruction. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Prerequisites: MUS. 372

Transfer Credit: CSU, UC

MUS. 374 GUITAR IV

Continuation of MUS. 373. Covers the techniques of playing the guitar at advanced levels. Group and individual attention are included. Students must supply their own instruments. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Prerequisites: MUS. 373

Transfer Credit: CSU, UC

MUS. 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students



may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Oceanography

OCEN 100 OCEANOGRAPHY

A study of the physical, chemical, geological, and biological aspects of oceans with an emphasis on the methods of scientific investigation. Topics include the origin and evolution of oceans, plate tectonics, currents, waves, tides coastal processes and landforms, ocean life and ecology, and recent discoveries. Fieldtrips may be required. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B1, B2

Transfer Credit: CSU (CSU GE Area B1, B2), UC (IGETC Area 5A, 5B)

OCEN 101 OCEANOGRAPHY LAB

Introductory laboratory exercises in plate tectonics; the geography and sediments of the seafloor; the cause and effect of weather, waves, and currents; the physics and chemistry of seawater; marine life forms; marine resources, and the effect of humans on the sea. A field trip is required. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: Completion of, or concurrent enrollment in OCEN 100

AA/AS Degree Requirements: Area B3 - only if OCEN 100 is successfully completed prior to or concurrently with OCEN 101

Transfer Credit: CSU (CSU GE Area B3 - only if OCEN 100 is successfully completed prior to or concurrently with OCEN 101), UC (IGETC Area 5C*)

Paralegal Studies

LEGL 241 LAW OFFICE MANAGEMENT

This course provides an overview of law firm management administration. Topics include case management, filing

systems, calendaring, indexing and summarizing pleadings and discovery, timekeeping, billing, fees, intra- and inter-office communication, client interviewing, conflict checks, and office policies. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

LEGL 249 INTRODUCTION TO THE LEGAL SYSTEM

Overview of the U.S. legal system introducing the procedural and substantive areas of law taught in the paralegal program as well as constitutional law, comparative law, and methods of legal analysis. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC

LEGL 250 LEGAL RESEARCH AND WRITING

Introduction to reading and briefing legal cases, legal writing, primary and secondary sources of law, and conducting legal research in state and county law libraries. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 110.

Transfer Credit: CSU

LEGL 251 TORTS

Study of the substantive law of torts including tort liability, actionable torts, remedies, and procedures. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

LEGL 252 CIVIL LITIGATION AND TRIAL PREPARATION

Introduction to the basics of trial practice and civil litigation procedures. Students learn how to conduct client intake, evaluate cases, conduct informal investigation and discovery, prepare pleadings and motions, complete discovery and fact investigations, engage in pretrial alternative dispute resolution procedures, identify pretrial considerations, preserve facts and prepare for trial, and



complete post-trial motions and appeals. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

LEGL 254 FAMILY LAW

Lecture and project-based course in legal principles and practical matters in family law. Includes drafting family law pleadings, dissolving marital status, the court process, child and spousal support, child custody and visitation, and the characterization and division of marital property. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

LEGL 260 ADVANCED LEGAL RESEARCH AND WRITING

Develop and refine legal research and writing skills by preparing a series of projects including drafting legal documents. Included is the efficient use of law libraries and legal databases. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: LEGL 250

Recommended: Eligibility for ENGL 110.

Transfer Credit: CSU

LEGL 261 LEGAL ETHICS

Paralegal regulations, ethics, and professional responsibilities, including those regarding the unauthorized practice of law, advertising, solicitation, legal advice, attorney-client relationships, conflicts of interest, legal competency, and due diligence. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

LEGL 263 INTELLECTUAL PROPERTY LAW

An overview of U.S. and foreign intellectual property laws including patents, trademarks, copyrights, and trade secrets as well as an examination of the role of the paralegal in this

area. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

LEGL 264 CONTRACTS

Examination of the theory and practice of contract law, including the formation and performance of contracts, the statute of frauds, third-party rights and remedies, liability for breach of contract, and the Uniform Commercial Code. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

LEGL 267 ANIMAL LAW

An introductory course covering the statutory, regulatory, and common law principles affecting non-human animals in substantive areas of law including criminal law, torts, contracts, consumer protection, First Amendment and Constitutional issues, wills and trusts, and family law. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

LEGL 269 ELDER LAW

This course covers state, federal, and administrative laws and regulations affecting older adults. Topics include client interviewing, Social Security, SSI, Medicare, Medi-Cal/Medicaid, trusts, guardianships, conservatorships, funding sources, residential long-term care, and elder abuse. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

LEGL 272 IMMIGRATION LAW

A hands-on introduction to the legal principles related to immigration law, including non-immigrant visitor, student, and business visa options, immigrant business visa options, family immigration, asylum, criminal aspects of immigration law, and employer sanctions. Students will learn how to interview clients, prepare immigration forms used in an immigration law practice, and prepare immigration cases for trial. *Letter Grade Only. Degree Credit.*



Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU

LEGL 276 ELECTRONIC LITIGATION AND INVESTIGATION

This course is an introduction to the technology used in a law firm environment. Topics include computers, peripherals, software, backup programs, troubleshooting, e-filing, e-discovery, legal research databases, online investigation, evidence gathering and preservation, digital forensics, and the power of the Internet in litigation. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

LEGL 672 WORK EXPERIENCE EDUCATION: INTERNSHIP

Supervised internship in cooperation with private or public sector employers. Designed to apply knowledge and learn new skills directly related to the student's program of study outside of the normal classroom environment. Students must attend one orientation during the first three weeks of each semester. Each unit requires 60 hours per unit for unpaid work or 75 hours per unit for paid work during the semester. May be repeated for credit up to 16 units. The unit limitation applies to any Work Experience Education (any combination of 670, 671, and/or 672 courses) offered within the San Mateo Community College District. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 3

Hours/semester: 48-162 Work Experience

Prerequisites: A minimum of 12 completed units in the occupational discipline.

Transfer Credit: CSU

LEGL 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a

given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Philosophy

PHIL 100 INTRODUCTION TO PHILOSOPHY

An introductory course that examines classic philosophical problems in the areas of metaphysics, epistemology, and ethics. Within ethics, attention is given to historical as well as contemporary social and political issues. The course surveys influential philosophers in the Western and Eastern intellectual traditions, providing a multicultural perspective on the above problem areas. The aim of the course is to think critically about these topics, using the philosophical method, and connect the issues to contemporary life. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: PHIL 100

PHIL 103 CRITICAL THINKING AND ARGUMENTATIVE WRITING

Development of critical thinking skills necessary for evaluating as well as formulating persuasive essays and inquiry-driven research. Critical thinking skills are applied to topics such as political rhetoric, advertisements, editorials, scientific claims, and social commentary. The course covers uses of language, distinguishing knowledge from belief and fact from judgment, deductive reasoning, inductive reasoning, evaluating information sources, and the identification of assumptions, common logical errors, and fallacies. The course emphasizes writing, with attention to audience, purpose, context, genre, and language conventions. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: ENGL 100 or ENGL 105

Transfer Credit: CSU, UC

PHIL 160 HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL

This course covers the history of Western philosophy, from the ancient Greeks to the medieval period. Key



philosophers and movements in antiquity include the Pre-Socratics, Plato, Aristotle, Skepticism, Epicureanism, and Stoicism. Key medieval philosophers include Ibn Sina, Augustine, and Maimonides. Topics include the relationship between philosophy and religion, the relationship between individual and society, human nature, and the limits of human knowledge. Special attention is given to how ancient and medieval thought continues to shape metaphysical, epistemic, and ethical views in contemporary society. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: PHIL 130

PHIL 175 MODERN PHILOSOPHY

This course addresses 16th through 18th century philosophy with emphasis on the broad epistemological and metaphysical developments of empiricism and rationalism in philosophical thought from Descartes to Kant. Special topics include the foundation of knowledge, the nature of the human mind, free will, and the foundation of morality. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: PHIL 140

PHIL 190 CONTEMPORARY PHILOSOPHY

A survey of major philosophic movements from the late 1800s until the present day. These movements include phenomenology, Marxism, pragmatism, logical positivism, existentialism, feminism, and race theory. The course explores the social, political, ethical, and religious impact the movements have had on contemporary society. Specific topics include the relationship between mind and consciousness, authenticity, socially situated knowledge, and the relationship between continental and analytic philosophy. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

PHIL 200 INTRODUCTION TO LOGIC

This course is an introduction to formal systems of symbolizing statements, analyzing statements, and testing arguments. Main topics covered in the course include the difference between deductive and inductive arguments; how to translate English statements into propositional logic and predicate logic; how to test statements for consistency and equivalence; and how to test arguments for validity. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area A3

Transfer Credit: CSU (CSU GE Area A3), UC

C-ID: PHIL 110

PHIL 240 INTRODUCTION TO ETHICS

This course is an introduction to major ethical problems and theories. The course examines topics such as human nature, conflicting views of moral goodness, and the relationship between religion and morality, with an emphasis on better understanding sources of moral disagreement. The ethical theories reviewed in the course include deontology, consequentialism, virtue ethics, and the ethics of care. These ethical theories are applied to present-day issues. Potential issues discussed in the course include environmental ethics, biomedical ethics, animal rights, the ethics of eating, the ethics of technology, and human enhancement. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

C-ID: PHIL 120

PHIL 300 INTRODUCTION TO WORLD RELIGIONS

A survey of major religious traditions, with an emphasis on their origins, key figures, beliefs, rituals, and art. Religions covered include Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. The course explores the similarities and differences between religions, using the everyday lives of religious members as points of comparison. The course also examines philosophical questions raised by each religion's teachings and rituals. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2



Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

PHIL 312 INTRODUCTION TO PHILOSOPHY OF RELIGION

An introduction to philosophical thinking about religion, with an emphasis on issues central to traditional monotheism. This course teaches how to critically examine arguments concerning the origin of religion, the existence of God, the historicity of miracles, the veridicality of religious and mystical experience, the existence of spirits or souls, the possibility of life after death, the equal validity of all religions, and other topics. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

PHIL 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Photography

(See courses under [Art and Digital Art & Animation](#))

Photonics and Laser Technology

PALT 401 INTRODUCTION TO PHOTONICS AND LASER TECHNOLOGY

An introductory review of photonics and laser technology (PALT) and the mathematical skills to address engineering problems in PALT. Topics include: Review of various PALT quantities, common PALT algebraic expressions, visualization of typical linear and non-linear behaviors in PALT, geometry and trigonometry in PALT elements like lenses and prisms, description of sinusoidal and wave

motion, introduction to concepts like polarization through complex notation and vectors. *Pass/No Pass Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Transfer Credit: CSU

PALT 402 GEOMETRICAL OPTICS

A hands-on introduction to geometrical optics that deals with image formation by considering light as rays. Topics Include: concepts of reflection, refraction, transmission, and dispersion; the interaction of light rays with optical elements like mirrors, lenses, prisms, and stops; image formation characteristics, aberration, and optical design using ray tracing and matrix methods; description of common optical systems like cameras and telescopes. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: Completion of, or concurrent enrollment in, PALT 401

Transfer Credit: CSU

PALT 403 OPTICS AND PHOTONICS MODELING AND DESIGN

A hands-on introduction to modeling, analysis, and design of optical and photonics systems using matrix based computational programming (MATLAB or Octave) and commercial optical design software like ZEMAX. Topics Include: plotting and data visualization; use of arrays to understand image processing; design of optical and photonic systems using the ZEMAX software (or similar commercial software). *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: Completion of, or concurrent enrollment in, PALT 402

Transfer Credit: CSU

PALT 404 WAVE OPTICS

An introductory hands-on course in wave optics describing the properties of light and its interaction with objects using wave equations. Topics include: concepts of superposition, polarization, interference and diffraction; the interaction of light waves with small objects such as wires, apertures and



multilayered coatings; mathematical techniques needed to quantify interactions. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: Completion of, or concurrent enrollment in, PALT 402

Transfer Credit: CSU

PALT 405 INTRODUCTION TO LASER TECHNOLOGY

A hands-on introduction to the principles and technology of lasers including properties of different types of lasers. Topics include: safe use and operation of lasers; principle of producing laser light; techniques to control laser light; applications of laser in various medical, non-medical, defense and entertainment industries. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: Completion of, or concurrent enrollment in, PALT 404

Transfer Credit: CSU

PALT 406 COMPONENTS AND DEVICES IN PHOTONICS AND LASER TECHNOLOGY

An introductory review of basic components and devices that make up optics and photonics systems. Topics include: polarizers and filters; non-laser light sources; light detectors; light modulators; selection of appropriate optical device for a desired application. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: Completion of, or concurrent enrollment in, PALT 404

Transfer Credit: CSU

PALT 407 OPTICAL COATING TECHNOLOGY

A hands-on review to optical coating technology. Topics include: matrix methods in coating analysis and design; Thin film coatings; coatings in color applications; coating production techniques; safe use and handling of coatings; measurement and modeling of coating performance. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: PALT 404

Transfer Credit: CSU

PALT 408 OPTICAL FIBERS

An introductory hands-on course in optical fiber technology describing the transmission of light through optical fibers. Topics Include: principles of light transmission in optical fibers; fiber optic fundamentals; fiber technology; applications of fiber optics; experiments with light behavior through fibers. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: PALT 405

Transfer Credit: CSU

PALT 409 ADVANCED PHOTONICS TECHNOLOGY

A hands-on introduction to advanced photonics and laser technologies. Topics include: ultrashort pulse propagation; nonlinear optics; synchrotron and other advanced light sources; photonic crystals; generation and measurements of ultrashort pulses. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Prerequisites: PALT 405

Transfer Credit: CSU

Physical Education Theory

P.E. 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU



Physics

PHYS 114 SURVEY OF CHEMISTRY AND PHYSICS

Equivalent to CHEM 114. A conceptual survey of physical science (physics and chemistry) intended for non-science majors at the General Education level. A general discussion of the scientific method and techniques are followed by physics, chemistry, and integrated topics. The laboratory portion covers a hands-on exploration of phenomena discussed in lecture. The physics component of the course discusses motion, force, energy, electricity and magnetism, waves and light. The chemistry component of the course focuses on chemicals and reactions common in everyday life. Concepts relating to the nature and interactions of atoms, ions, and molecules are presented. Students also learn to use and evaluate information presented on product labels, in advertisements, and online. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable.

AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC* (IGETC Area 5A*)

C-ID: PHYS 140

PHYS 210 GENERAL PHYSICS I

This course is the first in a two-semester algebra based series designed to provide a basic foundation in the fundamentals of physics. Topics include the nature of physics, mechanics, elasticity and simple harmonic motion, waves and sound, fluids, heat and temperature, and the kinetic theory of gases. This course meets general education requirements for a Physical Science. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: MATH 130

AA/AS Degree Requirements: Area B1, B3; Math Competency

Transfer Credit: CSU (CSU GE Area B1, B3), UC* (IGETC Area 5A, 5C)

C-ID: PHYS 105; PHYS 100S (requires PHYS 210 & 220)

PHYS 220 GENERAL PHYSICS II

This course is the second in a two-semester algebra based series designed to provide a basic foundation in the fundamentals of physics. Topics include electricity and magnetism, electromagnetic waves, optics, the special theory of relativity, atomic physics, and nuclear physics. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: PHYS 210

AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC* (IGETC Area 5A, 5C)

C-ID: PHYS 110; PHYS 100S (requires PHYS 210 & 220)

PHYS 250 PHYSICS WITH CALCULUS I

This course is the first in a three-semester calculus based series designed to provide a thorough foundation in the fundamentals of physics to students majoring in engineering or the sciences. Topics include classical mechanics, fluids, and wave motion. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: Completion of, or concurrent enrollment in, MATH 252

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: Area B1, B3

Transfer Credit: CSU (CSU GE Area B1, B3), UC* (IGETC Area 5A, 5C)

C-ID: PHYS 205; PHYS 200S (requires PHYS 250, 260 & 270)

PHYS 260 PHYSICS WITH CALCULUS II

This course is the second in a three-semester calculus based series designed to provide a thorough foundation in the fundamentals of physics to students majoring in engineering or the sciences. Topics include electricity, magnetism and electro-magnetic waves. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: PHYS 250 and Completion of, or concurrent enrollment in, MATH 253



AA/AS Degree Requirements: Area B1, B3; Math Competency

Transfer Credit: CSU (CSU GE Area B1, B3), UC* (IGETC Area 5A, 5C)

C-ID: PHYS 210; PHYS 200S (requires PHYS 250, 260 & 270)

PHYS 270 PHYSICS WITH CALCULUS III

This course is the third in a three-semester calculus based series designed to provide a thorough foundation in the fundamentals of physics to students majoring in engineering or the sciences. Topics include thermodynamics, geometrical and physical optics, and modern physics. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: PHYS 250 and completion of, or concurrent enrollment in MATH 253

AA/AS Degree Requirements: Area B1, B3; Math Competency

Transfer Credit: CSU (CSU GE Area B1, B3), UC* (IGETC Area 5A, 5C)

C-ID: PHYS 215; PHYS 200S (requires PHYS 250, 260 & 270)

PHYS 405 APPLIED RADIOGRAPHIC PHYSICS

Introduction to the basic ideas about matter, energy, electricity, magnetism, and electromagnetic radiation, with emphasis on X-ray phenomena. Applications to the interaction of radiation with matter and X-ray circuits are included. This course is required for students pursuing careers as Radiologic Technologists. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Successful completion of Elementary Algebra or equivalent, or placement by other measures as applicable, and CHEM 192 or CHEM 410 or equivalent.

AA/AS Degree Requirements: Area B1

Transfer Credit: CSU (CSU GE Area B1)

Political Science

PLSC 103 CRITICAL THINKING ABOUT WORLD POLITICS

This introductory course is designed to improve the student's ability to think clearly about problems in world politics and their social, political, and economic

implications. Reasoning skills will be applied when evaluating and constructing convincing arguments about current world political controversies. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area A3

Transfer Credit: CSU (CSU GE Area A3), UC

PLSC 130 INTRODUCTION TO INTERNATIONAL RELATIONS

This course examines the major theories of international politics as well as the practical issues that affect world politics today. Students explore the inter-relationship between theory and practice as it relates to the international arena, especially in regards to religion and ethnic conflict. And in the light of the international environment today, students address issues surrounding the continuing "War on Terrorism" and its relationship to past major wars (i.e. Peloponnesian War, World Wars and Cold War). *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: POLS 140

PLSC 150 INTRODUCTION TO POLITICAL THEORY

This class provides the foundation for the study of political science, politics and the nature of government. Examination of various fundamental theoretical approaches to politics and of basic political problems, as well as proposed solutions found in an evolving liberal social contract and other proposed solutions. Analysis of selected political theories and of the relevance of theory to contemporary problems. Critically thinking about the role of morality, power leadership, religion, government, civic culture and class are the framework. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: POLS 120



PLSC 170 INTRODUCTION TO COMPARATIVE POLITICS

This course introduces students to the technique of comparing nation-states using different approaches to study multiple government types including their history, political institutions, processes and policies, the environments in which they occur as well as their consequences. Political cultures are compared in order to critically analyze the viability of particular governments on a global scale. Topics include: regime change, civic culture, group politics, functionalism, dependency, legitimacy and leadership. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: POLS 130

PLSC 210 AMERICAN POLITICS

An introduction to United States and California government and politics, including their constitutions, political institutions and processes as well as political actors with foci on the political philosophies of its framers and the inter-related functions of the three branches of the federal government. Examination of political behavior, political issues and public policy, as well as contemporary relationships between federal, state and local governments are consistently explored. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: D US-2, D US-3; DSI

Transfer Credit: CSU (CSU GE DSI, D US-2, D US-3), UC (IGETC Area 4)

C-ID: POLS 110

PLSC 310 CALIFORNIA STATE AND LOCAL GOVERNMENT

California State and Local Government with special emphasis on the US and California Constitutions as providing the basic framework for our political institutions and processes of Federal, State and Local Government. Relationships between Federal, State and Local Governments are explored, especially as it relates to political issues that directly affect the greater good as well as individuals. Additionally, this course provides the opportunity to better understand and appreciate the political, social and economic quiltwork that can be contributed to the diverse ethnicities and cultures of America, in general, and the State of California, in particular. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: D US-3; DSI

Transfer Credit: CSU (CSU GE DSI, D US-3), UC (IGETC Area 4)

Psychology

PSYC 100 GENERAL PSYCHOLOGY

Introduction to major topics, theories, and research methods of psychology. Topics covered include the biological basis of behavior, human development, learning, memory, intelligence, perception, motivation, cognition and consciousness, emotion, personality, social behavior, abnormal behavior and methods of therapy. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: PSY 110

PSYC 106 PSYCHOLOGY OF PREJUDICE AND DISCRIMINATION

This course focuses on psychological theories and research studies of prejudice and discrimination. The nature of discrimination is examined in relation to prejudice behavior and the variables which influence the psychological development, adjustment and coping strategies of ethnic minority groups in the United States. The development of prejudice in children is examined. Economic, educational, political, and legal issues are analyzed for their psychological impact specifically on Americans of African, Asian, Hispanic, and Native American descent. However, other ethnic minority groups are included. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

PSYC 200 DEVELOPMENTAL PSYCHOLOGY

This course examines human development across the lifespan, from conception through death by focusing on theories and methods of psychological research; including physical, cognitive, social, and emotional changes throughout the lifespan. Emphasis on development as



an on-going process understanding the interaction of development issues: nature vs. nurture, continuity vs. discontinuity, and stability vs. instability. This course is designed as a foundation for careers in educational, social, psychological, and medical fields as well as providing a better understanding of one's own development process. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: PSYC 100

AA/AS Degree Requirements: DSI; Area E1

Transfer Credit: CSU (CSU GE DSI; Area E1), UC (IGETC Area 4)

C-ID: PSY 180

PSYC 205 SOCIAL SCIENCE RESEARCH METHODS

Equivalent to SOCI 205. This course is designed to introduce students to the basic principles of social science research. Various sociological and psychological research methods are examined that include experimental research, survey research, field research, and comparative-historical research. Procedures to evaluate the soundness of research designs are examined. Ethical issues related to research techniques are also considered. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 200 and PSYC 100

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: PSY 200

PSYC 300 SOCIAL PSYCHOLOGY

Study of human interaction, with emphasis on how thoughts, feelings, and behavior of individuals are influenced by actual, imagined, or implied presence of others. Focus of course is on social factors that influence human behavior; ourselves and other people, institutions and social and physical structures people create. A review of various perspectives unique to social psychologists including attitude formation, interpersonal attraction, and aggression is examined. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: PSY 170

PSYC 340 INTRODUCTION TO HUMAN SEXUALITY

Human Sexuality is a broad field in which many cultural, psychological and physiological variables interact in relation to sexual development, attitudes and behaviors. Methods of scientific psychology are utilized to improve understanding of a broad range of behaviors ranging from healthy to dysfunctional within mainstream modern American culture as well as other cultures. Discussion of differing cultural and moral perspectives is utilized to assist students in making a critical assessment of the nature of the sexual self as well as intimate human relationships within their own community and the world. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI; Area E1

Transfer Credit: CSU (CSU GE DSI; Area E1), UC (IGETC Area 4)

C-ID: PSY 130

PSYC 410 ABNORMAL PSYCHOLOGY

Introduces the scientific study of psychopathology and atypical behaviors, broadly defined. Students investigate abnormal behavior from a variety of perspectives including biological, psychological, and sociocultural approaches. An integrative survey of theory and research in abnormal behavior, and intervention and prevention strategies for psychological disorders are also introduced. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: PSY 120

PSYC 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*



Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Radiologic Technology

RADT 400 ORIENTATION TO RADIOLOGIC TECHNOLOGY

This course is an orientation to radiologic technology including organization of medical practice, the socioeconomic, ethical, political and legal aspects of healthcare with special emphasis on radiology. Included will be an introduction to radiation protection and the provisions of the California Administrative Code, Title XVII, Radiation Control Regulations. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 32-36 Lecture; 64-72 Homework

Prerequisites: ENGL 100 or ENGL 105

Transfer Credit: CSU

RADT 408 PERSPECTIVES IN RADIOLOGY

Designed for students who have been accepted to the radiologic technology program, this course provides an introduction to hospital policies including codes of conduct, radiation protection, ethics, medical asepsis, patient care, and confidentiality. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: Acceptance to the Radiologic Technology Program.

Transfer Credit: CSU

RADT 410 RADIOGRAPHIC POSITIONING

Students learn concepts and terminology in radiographic positioning, anatomy and selected pathology of the chest, abdomen, pelvis, upper and lower extremities. Laboratory experience with ionizing and non-ionizing equipment is included. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: Acceptance in the Radiologic Technology Program.

Transfer Credit: CSU

RADT 415 RADIATION PROTECTION AND BIOLOGY

A study of the effects and methods of measurements of radiation in the human body. Discussion of historic and current concepts in governmental regulations and protection requirement. This course provides the student with background to understand the methods for protecting patients and medical personnel from unnecessary radiation exposure. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: PHYS 405

Transfer Credit: CSU

RADT 418 CLINICAL EDUCATION I

Designed for the beginning radiologic technology student assigned to a clinical education facility. It consists of orientation to clerical, image processing, patient transportation, supplies and equipment, and radiographic equipment operation. Students observe, assist and perform radiographic examinations appropriate to the student's level of education following accepted radiation protection standards. *Letter Grade Only. Degree Credit.*

Units: 4.5

Hours/semester: 224-243 Field Experience

Prerequisites: Acceptance into the Radiologic Technology Program.

Corequisites: Concurrent enrollment in RADT 410.

Transfer Credit: CSU

RADT 420 RADIOGRAPHIC POSITIONING II

Positioning the human body for radiographic purposes with emphasis on the vertebral column, bony thorax, bony cranium, genitourinary and gastrointestinal systems and mobile radiography. Patient care and pathological conditions appropriate to procedures and proper equipment manipulation and operation are also covered. Students perform related projects in the affiliated clinical education sites to which they are assigned. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 48-54 Lecture; 48-54 Lab; 96-108 Homework

Prerequisites: RADT 410

Corequisites: Concurrent enrollment in RADT 428

Recommended: Eligibility for ENGL 110.

Transfer Credit: CSU



RADT 428 CLINICAL EDUCATION II

Second semester clinical education course for the radiologic technology student. Based on skills mastered and maintained in RADT 418, the student continues to build knowledge and clinical application of radiographic positioning and related anatomy. Students assist and perform radiographic examinations appropriate to the student's level of knowledge following accepted radiation protection standards. *Letter Grade Only. Degree Credit.*

Units: 6.5

Hours/semester: 320-351 Field Experience

Prerequisites: RADT 418

Corequisites: Concurrent enrollment in, RADT 420

Transfer Credit: CSU

RADT 430 PRINCIPLES OF RADIOGRAPHIC IMAGE PRODUCTION

This course covers the application of the theoretical physics of x-ray production, as well as the practical job of producing quality radiographs with the least possible dose to the patient. Included in this course is a thorough exploration of the major and minor technical factors, including mAs, kVp, distance, and filtration. In addition, there is an analysis of image quality, and methods for correcting improperly exposed radiographs. *Letter Grade Only. Degree Credit.*

Units: 3.5

Hours/semester: 48-54 Lecture; 24-27 Lab; 96-108 Homework

Prerequisites: PHYS 405

Transfer Credit: CSU

RADT 435 IMAGING EQUIPMENT AND QUALITY CONTROL

This course provides the student with an introduction to the various types of equipment and tests required to organize and implement a program of quality control in diagnostic imaging. It includes topics such as: radiation output measurements, filtration, linearity, reproducibility, automatic exposure control (AEC) analysis, alignment, kilovolt peak (kVp) and milliamperes-seconds (mAs) and accuracy. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 16-18 Lecture; 24-27 Lab; 32-36 Homework

Prerequisites: RADT 430 or licensed radiologic technologist

Transfer Credit: CSU

RADT 438 CLINICAL EDUCATION III

Designed for the third semester radiologic technology student. It is the third segment of the first rotation. Based on skills mastered and maintained in RADT 428, the student continues to build knowledge and clinical application of radiographic positioning and related anatomy. Students assist and perform radiographic examinations appropriate to the student's level of knowledge following accepted radiation protection standards. *Letter Grade Only. Degree Credit.*

Units: 4.5

Hours/semester: 224-243 Field Experience

Prerequisites: RADT 428

Transfer Credit: CSU

RADT 440 ADVANCED IMAGING MODALITIES & SPECIALIZED PROCEDURES

Students apply basic technical and positioning knowledge to specialize procedures. Appropriate pathology encountered in special procedures is discussed. Principles of CT, MRI, U/S, nuclear medicine, mammography, interventional radiography, mobile and surgical radiography, pediatrics, geriatrics, PET, and radiation oncology are also introduced. *Letter Grade Only. Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: RADT 415, RADT 420 and RADT 430 or certification as a Radiologic Technologist.

Transfer Credit: CSU

RADT 441 SECTIONAL ANATOMY

The course provides an introduction to the basic principles of sectional anatomy as related to imaging modalities such as Computerized Tomography (CT) and Magnetic Resonance Imaging (MRI). This information is required for Radiologic Technology students. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Transfer Credit: CSU

RADT 442 RADIOGRAPHIC PATHOLOGY

Disease processes commonly encountered by the radiographer are presented in this course. Students will study radiographic computerized tomography (CT) and magnetic resonance imaging (MRI) scans of skeletal, neurologic, gastrointestinal, respiratory, circulatory and reproductive systems. *Letter Grade Only. Degree Credit.*

Units: 1.5



Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: BIOL 260 and RADT 441

Transfer Credit: CSU

RADT 448 CLINICAL EDUCATION IV

Designed for the fourth semester radiologic technology student. Students continue to build the skills obtained in previous clinical education experiences. *Letter Grade Only. Degree Credit.*

Units: 9.5

Hours/semester: 464-513 Field Experience

Prerequisites: RADT 438

Transfer Credit: CSU

RADT 450 REGISTRY REVIEW

This course is designed to prepare the student for board examination through comprehensive review of Radiologic Technology topics and preparatory testing. This course is required for the graduating Radiologic Technology student. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 24-27 Lecture; 48-54 Homework

Prerequisites: RADT 435 and completion of, or concurrent enrollment in, RADT 458

RADT 458 CLINICAL EDUCATION V

This course is the second segment of the second year of Radiologic Technology clinical education. Students continue to build the skills obtained in the previous four clinical experiences and obtain skills in more complex procedures. *Letter Grade Only. Degree Credit.*

Units: 9

Hours/semester: 448-486 Field Experience

Prerequisites: RADT 448

Transfer Credit: CSU

RADT 468 CLINICAL EDUCATION VI

This final phase of clinical education allows the student to perform radiographic procedures on patients in affiliated hospitals with minimal or indirect assistance in preparation for entry into employment. The final four weeks of training are dedicated to a specialized area of radiography and require full-time attendance in the clinical setting. *Letter Grade Only. Degree Credit.*

Units: 4.5

Hours/semester: 232-243 Field Experience

Prerequisites: RADT 458

Transfer Credit: CSU

RADT 470 SPECIALIZED TECHNIQUES: MAMMOGRAPHY

This course covers the curriculum mandated by the California Department of Public Health, Radiologic Health Branch, which includes: breast anatomy, physiology, instrumentation, technical factors, mammography positioning, pathology, risk factors, and detection techniques. It satisfies the requirements of California's qualifications for the mammography examination. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 24-27 Lecture; 24-27 Lab; 48-54 Homework

Prerequisites: Enrollment in the Radiologic Technology program or certification as a Radiologic Technologist.

Transfer Credit: CSU

RADT 471 SPECIALIZED TECHNIQUES: FLUOROSCOPY

This course covers fluoroscopic equipment, radiation protection, illumination, image evaluation, eye anatomy and physiology, patient and personnel dose reduction. Intended for second year students in the Radiologic Technology Program or licensed Radiographer. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2.5

Hours/semester: 32-36 Lecture; 24-27 Lab; 64-72 Homework

Prerequisites: RADT 435, or California Radiologic Technology License.

Transfer Credit: CSU

RADT 474 VENIPUNCTURE FOR CONTRAST MEDIA ADMINISTRATION

Students learn concepts and techniques of venipuncture used by radiologic technologists for the administration of contrast material, the pharmacology of dose units, and response to allergic reaction. Puncture techniques are practiced on a manikin and ten venipuncture are performed on a human being. This course meets the statutory requirements of California Health and Safety Codes. *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 8-9 Lecture; 24-27 Lab; 16-18 Homework



Prerequisites: California full certification as a radiologic technologist or enrollment as a second-year student in a two-year radiologic technology program. Current CPR and Basic Life Support for health care provider approved by the American Heart Association (AHA).

Transfer Credit: CSU

RADT 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Secretarial-Office Skills-Word Processing

(See [Computer Business Office Technology - CBOT](#))

Social Sciences

SOSC 650 STUDY ABROAD LIFE AND CULTURE, A SOCIAL SCIENCES PERSPECTIVE

This course introduces students to the daily life, history, economy, politics, social structures and culture of a foreign country as part of the Study Abroad Program. Students gain skills in cross-cultural competency as well as specific knowledge and understanding of a wide range of topics in the social sciences as they attend lectures, interact with local experts, and participate in field trips and hands-on activities. Students must be accepted into the Semester Abroad Program. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

Transfer Credit: CSU

Sociology

SOCI 100 INTRODUCTION TO SOCIOLOGY

An introductory study of the basic concepts, theoretical approaches, and methods of sociology. Topics typically include the analysis of social structure, socialization and the self, culture and diversity, group dynamics, social stratification, social change, and globalization. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: SOCI 110

SOCI 105 SOCIAL PROBLEMS

An overview of selected social problems in the United States viewed from a sociological perspective. Emphasis is placed on the socially constructed nature of social problems and the role of power and ideology in their formation. Various social problems are identified, an analysis of the causes and consequences examined, and an array of proposed solutions and methods of intervention evaluated. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: SOCI 115

SOCI 141 ETHNICITY AND RACE IN SOCIETY

Examines sociological theories of race, ethnicity, and racism as well as explores cultural, political, and economic factors shaping the social construction of identities, reproduction of inequalities, and development of social relations in the areas of race and ethnicity. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 100.

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: SOCI 150



SOCI 205 SOCIAL SCIENCE RESEARCH METHODS

Equivalent to PSYC 205. Designed to introduce students to the basic principles of social science research. Various sociological and psychological research methods are examined that include experimental research, survey research, field research, and comparative-historical research. Procedures to evaluate the soundness of research designs are examined. Ethical issues related to research techniques are also considered. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: MATH 200 and SOCI 100

AA/AS Degree Requirements: DSI

Transfer Credit: CSU (CSU GE DSI), UC (IGETC Area 4)

C-ID: SOCI 120

SOCI 325 HONORS COLLOQUIUM: SOCIOLOGY OF HUMAN PERSONHOOD

Study of how human personhood -understood as an emergent property of social life- shapes and is shaped by social structures with implications for how human flourishing and failure is understood in the social sciences. NOTE: This section is designed primarily for students in the Honors Transfer Program, but is open to all students. All students enrolling in this section are required to do Honors level work. Honors credit is earned for SOCI 325 upon completion of the course. Honors credit is also earned for the approved, completed or concurrent companion course, upon completion of both SOCI 325 and the companion course with a grade of A or B (only if completed at Cañada College). *Letter Grade Only. Degree Credit.*

Units: 1

Hours/semester: 16-18 Lecture; 32-36 Homework

Prerequisites: ENGL 100 or ENGL 105

Corequisites: Completion of, or concurrent enrollment in one of the following: ANTH 110 or COMM 180 or PHIL 100 or PLSC 150 or PSYC 100 or SOCI 100

Transfer Credit: CSU, UC

SOCI 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students

may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Spanish

SPAN 110 ELEMENTARY SPANISH

Basic speaking, reading, and writing skills for students with no prior knowledge of Spanish. Students learn to talk about themselves, their families, studies, occupations, hobbies, and travel, among other topics. Cultural aspects of the Spanish-speaking world are highlighted, in order to raise cultural awareness and to use the language in a culturally appropriate manner. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

AA/AS Degree Requirements: Area C2

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

C-ID: SPAN 100

SPAN 111 ELEMENTARY SPANISH I

Equivalent to the first half of SPAN 110. Basic speaking, reading, and writing skills for students with no prior knowledge of Spanish. Students learn to talk about themselves, their families, studies and other occupations, among other topics. Cultural aspects of the Spanish-speaking world are highlighted, in order to raise cultural awareness and to use the language in a culturally appropriate manner. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Transfer Credit: CSU, UC*

C-ID: SPAN 100: both SPAN 111 + 112

SPAN 112 ELEMENTARY SPANISH II

Continuation of SPAN 111. Equivalent to the second half of SPAN 110. Basic speaking, writing, and reading skills with which to talk about hobbies, occupations, travel, and other topics. The course compares Spanish-speaking cultures to those of the students and encourages taking advantage of our rich multicultural environment to practice Spanish beyond the classroom. (SPAN 111 and 112 are equivalent



to SPAN 110.) *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: SPAN 111, or equivalent.

Transfer Credit: CSU, UC*

C-ID: SPAN 100: both SPAN 111 + 112

SPAN 120 ADVANCED ELEMENTARY SPANISH

Further development and practice of oral and written communication skills in many contexts (health, work, travel, art, traditions, environment), for students who can talk about their daily lives and narrate a simple story in the past in Spanish. Spanish-speaking cultures highlighted and compared with students' cultures and students are encouraged to use Spanish outside the classroom. Class conducted primarily in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 5

Hours/semester: 80-90 Lecture; 160-180 Homework

Prerequisites: SPAN 110 or SPAN 112 or equivalent.

AA/AS Degree Requirements: Area C2

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

C-ID: SPAN 110

SPAN 121 ADVANCED ELEMENTARY SPANISH I

Further development and practice of oral and written communication skills in different contexts (such as travel, shopping, health), for students who can talk about their daily lives and narrate a simple story in the past in Spanish. Spanish-speaking cultures highlighted and compared with students' cultures. Class conducted primarily in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: SPAN 110 or SPAN 112 or equivalent.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC*

C-ID: SPAN 110: both SPAN 121 + 122

SPAN 122 ADVANCED ELEMENTARY SPANISH II

Students who can narrate stories in the past have the opportunity to learn several new verb tenses and become more confident in their oral and written communication, while continuing to expand their vocabulary related to work, traditions and celebrations, the environment, etc. Spanish-

speaking cultures highlighted and compared with students' cultures. Class conducted primarily in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: SPAN 121 or equivalent.

AA/AS Degree Requirements: Area C2

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

C-ID: SPAN 110: both SPAN 121 + 122

SPAN 130 INTERMEDIATE SPANISH

Cultural aspects of the Spanish-speaking world are presented through literature, songs, art, videos, newspapers, and social media. Vocabulary includes topics such as current events, familial relationships, and food. Grammar topics include review and advanced usage of the preterit and imperfect, indicative and subjunctive, perfect forms, emotional and affective verbs, and more complex grammatical structures. The class is conducted primarily in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: SPAN 120 or SPAN 122 or equivalent.

Recommended: Eligibility for ENGL 100. Eligibility for ENGL 105 Students need to know enough English to be able to understand the textbook and course materials.

AA/AS Degree Requirements: Area C2

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

C-ID: SPAN 200

SPAN 140 ADVANCED INTERMEDIATE SPANISH

Vocabulary development and composition topics include social and economic issues, work-related and spare-time activities, breakthroughs in technology and medicine. Cultural aspects of the Spanish-speaking world related to these topics are presented through literature, art, songs, videos, newspapers, internet. Grammar topics include pluperfect subjunctive, relative pronouns, indirect speech, and passive voice. The class is conducted primarily in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: SPAN 130



Recommended: Eligibility for ENGL 105 Students need to know enough English to be able to understand the textbook and course materials.

AA/AS Degree Requirements: Area C2

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

C-ID: SPAN 210

SPAN 145 SPANISH CONVERSATION THROUGH FILM

Thought-provoking films expose students to authentic Spanish language as well as the culture and history of different regions in the Spanish-speaking world. Analysis and discussion of films with the goal of improving accuracy and fluency in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: SPAN 130

AA/AS Degree Requirements: Area C2

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

SPAN 150 SPANISH FOR HERITAGE SPEAKERS I

Designed primarily for Spanish speaking students who are comfortable with oral communication. This course includes vocabulary development, spelling and accents, registers, dialectal variation, cultural readings and introduction to Spanish language literature of South America, Spain, and Spanish-speaking cultures in the United States. Students expand on their own experience and values, and develop an appreciation of the diversity of the various Latino cultures and their influence in the US. Class is conducted entirely in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

AA/AS Degree Requirements: Area C2

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

C-ID: SPAN 220

SPAN 152 SPANISH FOR HERITAGE SPEAKERS II

Designed primarily for Spanish speaking students who are comfortable with oral communication. This course includes vocabulary development, spelling and accents, registers, dialectal variation, cultural readings and introduction to Spanish language literature of Central America and the

Caribbean. Students expand on their own experience and values, and develop an appreciation of the diversity of the various Latino cultures and their influence in the US. Class is conducted entirely in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: SPAN 150

AA/AS Degree Requirements: Area C2

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

C-ID: SPAN 230

SPAN 162 LATINO LITERATURE II

Survey of important Latin American novels, poetry, and short stories of the 20th century, contextualized in cultural, sociological, and political frameworks. The course emphasizes the diversity of Latino cultures and explores the influence of those cultures on the United States. Course is conducted entirely in Spanish. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: SPAN 140 or SPAN 150 or SPAN 152 or SPAN 220 or SPAN 230 or equivalent.

AA/AS Degree Requirements: Area C2

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

SPAN 220 SPANISH FOR HERITAGE SPEAKERS I

Designed primarily for Spanish speaking students who are comfortable with oral communication. Course includes vocabulary development, grammar, spelling and accents, registers, dialectal variation, cultural readings and introduction to Spanish language literature of South America, Spain, and Latinos in the United States. Emphasis on increasing understanding and appreciation for diverse Spanish speaking cultures. Class conducted entirely in Spanish. Formerly offered as SPAN 150. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

AA/AS Degree Requirements: Area C2

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

C-ID: SPAN 220



SPAN 230 SPANISH FOR HERITAGE SPEAKERS II

Designed primarily for Spanish speaking students who are comfortable with oral communication. Course includes vocabulary development, grammar, spelling and accents, registers, dialectal variation, cultural readings and introduction to Spanish language literature of the Americas. Emphasis on increasing understanding and appreciation for diverse Spanish speaking cultures. Class conducted entirely in Spanish. Formerly offered as SPAN 152. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 4

Hours/semester: 64-72 Lecture; 128-144 Homework

Prerequisites: SPAN 220

AA/AS Degree Requirements: Area C2

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

C-ID: SPAN 230

SPAN 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab

Transfer Credit: CSU

Speech Communication

(See [Communication Studies](#))

Team Sports**TEAM 105 ADVANCED BASEBALL**

Focuses on mastering individual skills and team concepts. This course is designed to improve the individual technique of students wishing to play intercollegiate community college baseball. Students also participate in numerous competitive drills and baseball conditioning. Demonstrated ability is required. May be repeated for credit up to 3 times. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 111.1 BASKETBALL I

Instruction at a beginning level in the rules, strategies and skills of basketball. Includes round-robin play during the last half of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 111.2 BASKETBALL II

Instruction at an intermediate level in the rules, strategies and skills of basketball. Includes round-robin play during the last half of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 111.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 111.3 BASKETBALL III

Instruction at an advanced intermediate level in the rules, strategies and skills of basketball. Includes round-robin play during the last half of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 111.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 111.4 BASKETBALL IV

Instruction at an advanced level in the rules, strategies and skills of basketball. Includes round-robin play during the last half of the semester. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 111.3



AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 132.1 FLAG FOOTBALL I

This course provides beginning skills in flag football, including catching, running with the ball, strategies, blocking, and rules of the game. Drills and competitions are used. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 132.2 FLAG FOOTBALL II

Continuation of TEAM 132.1. Provides intermediate skills in flag football, including catching, running with the ball, strategies, blocking, and rules of the game. Drills and competitions are used. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 132.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 132.3 FLAG FOOTBALL III

Continuation of TEAM 132.2. This course provides advanced intermediate skills in flag football, including catching, running with the ball, strategies, blocking, and rules of the game. Drills and competitions are used. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 132.2

AA/AS Degree Requirements: Area E1; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 141.1 SOCCER I

Covers instruction in and practice of the basic fundamentals essential for team play including dribbling, passing, trapping, throw-ins and defending. The rules and game etiquette are taught for an understanding of team play. Tournament play is included. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 141.2 SOCCER II

Continuation of TEAM 141.1. Provides the intermediate student the opportunity to refine and perfect the basic soccer skills essential to team play. Topics include ball possession in small sided group exercises, defending and tournament play. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 141.1 or demonstrated ability.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 141.3 SOCCER III

Continuation of TEAM 141.2. Intermediate/advanced skills are combined with group tactics essential for team play. Topics include intermediate/advanced passing and receiving, combination play, group defending and ball possession. Introduction to the 4-4-2 system of play. Round robin team play is involved. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 141.2 or demonstrated ability.

AA/AS Degree Requirements: Area E2

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 141.4 SOCCER IV

Continuation of TEAM 141.3. Competitive team play with emphasis on advanced skills and tactics. Topics include speed of play, group defending and systems of play. Tournament play is involved. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 141.3 or demonstrated ability.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*



TEAM 148.1 INDOOR SOCCER I

A course designed to provide instruction and practice in the fundamentals of indoor soccer and Futsal, team competition, specialized tactics and beginning systems of play. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 148.2 INDOOR SOCCER II

Continuation of TEAM 148.1. Provides the intermediate student the opportunity to refine and perfect the basic indoor soccer skills essential to team play. Topics include indoor soccer and Futsal, team competition, specialized tactics and beginning systems of play. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 148.1

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 148.3 INDOOR SOCCER III

Continuation of TEAM 148.2. Provides the intermediate student the opportunity to refine and perfect the indoor soccer skills essential to team play. Topics include indoor soccer and Futsal, team competition, specialized tactics, and systems of play. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 148.2

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 148.4 INDOOR SOCCER IV

Continuation of TEAM 148.3. Provides the expert student the opportunity to perfect the indoor soccer skills essential for team play. Topics include indoor soccer and Futsal, team competition, specialized tactics, and systems of play. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 148.3

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 171.1 VOLLEYBALL I

Instruction and practice of the fundamentals of the game including serving, passing, setting, spiking, and the basic defensive and offensive strategies. Emphasis is placed on the rules and etiquette of the game. Round robin play is included. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 171.2 VOLLEYBALL II

Continuation of TEAM 171.1. Provides the intermediate student with the opportunity to refine and perfect the basic volleyball skills and to master individual positions when using the 6-2 volleyball system. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 171.1 or demonstrated skill.

AA/AS Degree Requirements: Area E2

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 171.3 VOLLEYBALL III

Continuation of TEAM 171.2. Emphasis is placed on refinement of the basic fundamentals of the game as well as the more advanced aspects of setting, hitting, and serving. The 6-2 and 5-1 offensive and defensive systems of play are emphasized. Round robin team play is involved. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 171.2 or demonstrated skill.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 171.4 VOLLEYBALL IV

Continuation of TEAM 171.3. Designed to teach advanced skills, principles and techniques necessary and fundamental to understanding and playing at an advanced level. Emphasis is placed on the 6-2 and 5-1 team offensive/defensive systems and strategies. Includes participation



in organized round-robin competition preceded by a brief period of appropriate warm-up activities. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Prerequisites: TEAM 171.3 or demonstrated skill.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 183 GOLF: SKILL DEVELOPMENT

Focuses on mastering individual golf skills and concepts. It is designed to improve the individual technique of students wishing to play intercollegiate community college golf. A minimum skill level must be demonstrated to remain in the course. Major emphasis is placed on actual competition played on local golf courses. Included are both on and off course drills and discussion for skills and strategy. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

Recommended: Demonstrated ability is required.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 184 SOCCER: SKILL DEVELOPMENT AND CONDITIONING

Focuses on mastering individual skills and team concepts. It is designed to improve the individual technique of students wishing to play intercollegiate community college soccer. Students also participate in numerous competitive drills and soccer conditioning. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

Recommended: Demonstrated ability is required.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 185 EXPERT VOLLEYBALL TRAINING

Focuses on mastering individual skills and team concepts. It is designed to improve the individual technique of students wishing to play intercollegiate community college volleyball. Students also participate in numerous competitive drills and volleyball conditioning. Demonstration of appropriate skill level is required, and monitored by instructor. May be

repeated for credit up to 3 times. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 186 BASKETBALL: INDIVIDUAL SKILL DEVELOPMENT

This course focuses on mastering individual skills rather than team concepts. It is designed to improve the individual skills of students wishing to play intercollegiate community college basketball. Students spend considerable time working on the fundamentals of the game: ball handling, passing and shooting. Students also participate in numerous competitive drills and basketball conditioning. May be repeated once for credit. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1

Hours/semester: 48-54 Lab

Recommended: Demonstrated ability is required.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

TEAM 187 TENNIS: SKILL DEVELOPMENT AND CONDITIONING

Focuses on mastering individual skills and doubles team concepts. It is designed to improve the individual techniques of students wishing to play intercollegiate community college tennis. Students also participate in numerous competitive drills and tennis conditioning. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 2

Hours/semester: 96-108 Lab

Recommended: Demonstrated ability is required.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

Theatre Arts

DRAM 101 HISTORY OF THEATRE

A survey of theatre arts throughout the ages: Ancient Greek, Medieval, Renaissance, Neoclassical, Modern, and Contemporary. This course explores major developments in theatre from centuries past within its cultural, political and social context. The course covers canonical plays and



famous theatrical figures as well as theatre and stage design to explore theatre's dynamic role throughout history and today. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: THTR 113

DRAM 140 INTRODUCTION TO THE THEATRE

Discover the world of theatre - its process, people, performances, audiences, and its dynamic relationship with society. Engage in creative and research projects in acting, playwriting, directing, and design. Experience theatre's diversity, from edgy dramas to splashy Broadway musicals. Read plays, see film adaptations of stage scripts, examine dramatic criticism. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: THTR 111

DRAM 150 SCRIPT ANALYSIS

An introduction to the reading and analysis of scripts, and the different ways in which critics, directors, actors, and designers approach them. Read classic and contemporary plays, discover the creative mechanisms behind effective drama, and explore realistic and non-realistic work. Research playwrights and their process. Interpret, explore, and analyze some of the most influential and exciting work in theatre history. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Recommended: Eligibility for ENGL 110.

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: THTR 114

DRAM 151 INTRODUCTION TO SHAKESPEARE I

Equivalent to LIT. 151. Study of a chronological sequence of Shakespeare's plays, including works in different genres, and a selection of his sonnets and longer poetry. Reading, discussion, critical papers. The course also covers

Shakespeare's role in the development of English language and literature, and his connection to contemporary political and social issues. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: Appropriate skill level as demonstrated by eligibility for ENGL 100 or 105, or other measures as applicable.

AA/AS Degree Requirements: Area C2

Transfer Credit: CSU (CSU GE Area C2), UC (IGETC Area 3B)

DRAM 200 ACTING I: ACTING FOR THE STAGE AND THE CAMERA

Explore the theory of the fundamentals of acting. Discover the history of Method Acting, and the sometimes complementary, sometimes competing theories of its founders. Test theories in practice through theatre games, acting exercises, improvisation, and movement for both stage and screen. Learn and apply fundamental acting vocabulary. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

C-ID: THTR 151

DRAM 201 ACTING II

Continue developing performance skills through methods and techniques explored in DRAM 200. Take on longer and more challenging monologues and scenes, including non-realistic and classical texts, and ten-minute plays. Deepen emotional authenticity and refine creative expression. Develop more thorough text-based critical analysis. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 48-54 Lecture; 96-108 Homework

Prerequisites: DRAM 200

Transfer Credit: CSU, UC

C-ID: THTR 152

DRAM 233 INTRODUCTION TO NEW PLAY DEVELOPMENT

Learn about ensemble-based theatre: its history, how it's done, and what makes it so unique and exciting. Engage in the theatrical disciplines of playwriting, acting, and directing. Analyze, improvise, and experiment with new play



scripts. Write, direct and perform student-written plays in the end-of-semester Student One Act Festival or online as a radio drama. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 40-45 Lecture; 24-27 Lab; 80-90 Homework

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC (IGETC Area 3A)

DRAM 300.1 REHEARSAL AND PERFORMANCE I

Perform in a departmental production of either a live show or a radio play. Develop your skills as an actor, and as a member of an ensemble that pools its talents, energies, and resources together in a collective effort to build, develop, market, and manage the complex and demanding challenge that is a dramatic production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Transfer Credit: CSU, UC

C-ID: THTR 191

DRAM 300.2 REHEARSAL AND PERFORMANCE II

Continuation of DRAM 300.1. Perform in a departmental production of a live show or a radio play. Develop your skills as an actor, and as a member of an ensemble that pools its talents, energies, and resources together in a collective effort to build, develop, market, and manage the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Prerequisites: DRAM 300.1

Transfer Credit: CSU, UC

DRAM 300.3 REHEARSAL AND PERFORMANCE III

Continuation of DRAM 300.2. Perform in a departmental production of a live show or a radio play. Develop your skills as an actor at an intermediate-advanced level, and as a member of an ensemble that pools its talents, energies, and resources together in a collective effort to build, develop, market, and manage the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Prerequisites: DRAM 300.2

Transfer Credit: CSU, UC

DRAM 300.4 REHEARSAL AND PERFORMANCE IV

Continuation of DRAM 300.3. Perform in a departmental production of a live show or a radio play. Develop your skills as an actor at an advanced level, and as a member of an ensemble that pools its talents, energies, and resources together in a collective effort to build, develop, market, and manage the production. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 24-27 Lecture; 72-81 Lab; 48-54 Homework

Prerequisites: DRAM 300.3

AA/AS Degree Requirements: Area C1

Transfer Credit: CSU (CSU GE Area C1), UC

DRAM 305 TECHNICAL PRODUCTION I

Introduces students to play production techniques, procedures, and crafts. Topics include set design and construction, lighting design and implementation, building props, shop procedures, stage management, light and sound board programming and operation, and backstage operations. Student assignments support the DRAM 300 and DRAM 233 productions. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 32-36 Lecture; 48-54 Lab; 64-72 Homework

Transfer Credit: CSU, UC

C-ID: THTR 171; THTR 192

DRAM 695 INDEPENDENT STUDY

Designed for students who are interested in furthering their knowledge via self-paced, individualized instruction provided in selected areas or directed study to be arranged with instructor and approved by the division dean using the Independent Study Form. Varying modes of instruction can be used -- laboratory, research, skill development, etc. For each unit earned, students are required to devote three hours per week throughout the semester. Students may take only one Independent Study course within a given discipline. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 0.5 - 3

Hours/semester: 24-162 Lab



Transfer Credit: CSU

Varsity Sports

VAR 104 VARSITY BASEBALL

Consists of intercollegiate competition in the Coast Conference. The team also participates in regional tournaments, the Northern California playoffs and the state championships when qualified. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 144-162 Lab

Prerequisites: Demonstrated ability. Student-athletes must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

VAR 114 VARSITY BASKETBALL

Intercollegiate competition in the Coast Conference as well as regional tournaments, the Northern California playoffs, and, when qualified, the state championships. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 72-81 Lab

Prerequisites: Demonstrated ability. Student-athletes must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

VAR 140 VARSITY GOLF

Intercollegiate competition in the Coast Conference, dual matches, invitationals, and the conference championships. Team members also participate in the Northern California and, when qualified, state championships. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 144-162 Lab

Prerequisites: Demonstrated ability. Student-athletes must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

VAR 154 VARSITY SOCCER

Intercollegiate competition in the Coast Conference, regional tournaments, the Northern California playoffs and,

when qualified, the state championships. May be repeated for credit up to 3 times *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 144-162 Lab

Prerequisites: Demonstrated ability. Student athletes must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

VAR 160 WOMEN'S VARSITY SWIMMING

Consists of Intercollegiate Women's Swimming competition in the Coast Conference. The team also participates in regional invitationals, the Northern California Championship, and the CCCAA State Championship. Employs advanced training including conditioning and swim stroke mechanics at an intercollegiate level. May be repeated for credit up to 3 times. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 3

Hours/semester: 144-162 Lab

Prerequisites: Demonstrated ability. Student-athletes must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

VAR 170 VARSITY TENNIS

Consists of intercollegiate competition in the Coast Conference. The team also participates in dual matches, invitationals, the Northern California playoffs and the state championships when qualified. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 144-162 Lab

Prerequisites: Demonstrated ability. Student-athletes must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

VAR 300 VARSITY BASKETBALL: WOMEN

Consists of Intercollegiate Women's Basketball competition in the Coast Conference. The team also participates in regional tournaments, the Northern California playoffs and the state championships when qualified. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 1.5

Hours/semester: 72-81 Lab



Prerequisites: Demonstrated ability. Student-athletes must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

VARS 340 VARSITY WOMEN'S VOLLEYBALL

Consists of intercollegiate competition in the Coast Conference. The team also participates in regional tournaments, Northern California playoffs and state championships when qualified. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 144-162 Lab

Prerequisites: Demonstrated ability. Athlete must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

VARS 350 WOMEN'S VARSITY BADMINTON

Consists of Intercollegiate Women's Badminton competition in the Coast Conference. The team also participates in regional tournaments, the Northern California playoffs and the state championships when qualified. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 144-162 Lab

Prerequisites: Demonstrated ability. Student-athletes must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

VARS 400 WOMEN'S VARSITY WATER POLO

Consists of Intercollegiate Women's Water Polo competition in the Coast Conference. The team also participates in regional tournaments, the Northern California playoffs, and the state championships. May be repeated for credit up to 3 times. *Letter Grade Only. Degree Credit.*

Units: 3

Hours/semester: 144-162 Lab

Prerequisites: Demonstrated ability. Student-athletes must be enrolled in 12 units.

AA/AS Degree Requirements: Area E2; Physical Education

Transfer Credit: CSU (CSU GE Area E2), UC*

Word Processing

(See [Computer Business Office Technology](#))

Work Experience Education

WORK 670 WORK EXPERIENCE

Students may receive credit for work experience related to their major, field of study, or established career goals. Students must attend an orientation, which is offered in the first three weeks of each semester, then work with an instructor to review and discuss learning objectives and work experience. One unit of credit will be earned for each 48-54 hours of paid or unpaid work per semester, with a maximum of 6 units per semester. Students may repeat Work Experience courses within the SMCCCD for credit up to a maximum of 16 total units. *Grade Option (Letter Grade or Pass/No Pass). Degree Credit.*

Units: 1 - 6

Hours/semester: 48-324 Work Experience

Transfer Credit: CSU

