GEOG - Geography

GEOG 001 Physical Geography

3.0 Units

General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU Hours: 48-54 lecture

A spatial study of the Earth's dynamic physical systems and processes. Topics include: Earth-sun geometry, weather, climate, water, landforms, soil, and the biosphere. Emphasis is on the interrelationships among environmental and human systems and processes and their resulting patterns and distributions. Tools of geographic inquiry are also briefly covered; they may include: maps, remote sensing, Geographic Information Systems (GIS) and Global Positioning Systems (GPS). Field trips may be required. (C-ID GEOG 110)

GEOG 001L Physical Geography Laboratory

1.0 Units

Prerequisite**: GEOG 001 (may enroll concurrently) General Education: IGETC: Area 5C; CSU: Area B3

Transferable to UC/CSU
Hours: 48-54 lab

Designed to provide supplemental exercises in topics covered in Physical Geography lecture. Lab experience will include map analysis and interpretation, weather prognostication, landform processes and evolution, tectonics, biogeography, and habitat analysis. One or more field trips are required and may occur outside of class time. (C-ID GEOG 111)

GEOG 002 Cultural Geography

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

Topics include the identification of rocks and minerals as hand specimen and the study of geologic maps, landforms, and structures. Field trips will be taken to areas of geologic interest. Laboratory projects, written assignments and reports, and examinations will be used to evaluate student success. (C-ID GEOG 120)

GEOG 004 World Geography

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

Survey of the world's culture regions and nations as interpreted by geographers, including physical, cultural, and economic features. Emphasis on spatial and historical influences on population growth, transportation networks, and natural environments. Identification and importance of the significant features of regions. A *Field trip may be required* with the course. However, if a student cannot attend the trip, there will be an optional research paper assignment. (C-ID GEOG 125)

GEOG 006 California Geography

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D Transferable to UC/CSU

Hours: 48-54 lecture

A thematic approach to the state's issues, processes and topics relevant to geography including climate, landforms, natural vegetation, water resources, cultural landscape, ethnic diversity, urban and agricultural regions, and the economy. This course explores the physical and human landscapes that have evolved as a result of the human-environment interface. A field trip is required. (C-ID GEOG 140)

GEOG 010 3.0 Units

Introduction to Geographic Information Systems

Course Advisory: Basic computer literacy General Education: CSU: Area B1 Transferable to UC/CSU

Hours: 48-54 lecture

Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. Same course as GEOL 010. Not open to students who have completed GEOL 010. Field trips may be required. (*C-ID GEOG 155*)

GEOL - Geology

GEOL 001 Physical Geology

3.0 Units

General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU Hours: 48-54 lecture

An introduction to the principles of geology with emphasis on Earth processes. This course focuses on the internal structure and origin of the Earth and the processes that change and shape it. Online work may be required. (C-ID GEOL 100)

GEOL 002 Geology Laboratory

1.0 Unit

Prerequisite**: GEOL 001 or GEOL 005 (may enroll in either course concurrently).

General Education: IGETC: Area 5C; CSU: Area B3

Transferable to UC/CSU Hours: 48-54 lab.

Topics include the identification of rocks and minerals as hand specimen and the study of geologic maps, landforms, and structures. Field trips will be taken to areas of geologic interest. Laboratory projects, written assignments and reports, and examinations will be used to evaluate student success. (C-ID GEOL 100L)

GEOL 005 Geology of California

3.0 Units

Course Advisory: GEOL 001

General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU Hours: 48-54 lecture

An introduction to the geology of California, including tectonic processes, geologic structures, physiographic provinces, local rocks and minerals, landforms, natural resources, geologic history, and natural hazards in the state. Field trip will be taken to areas of geologic interest and a field trip report will be required. If the student cannot attend the trip, they will have make-up work. (C-ID GEOL 200)

GEOL 006 Earth Science

3.0 Units

General Education: IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU Hours: 48-54 lecture

An introduction to the essentials of Earth Science including the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the interactions between physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather and climate. (C-ID GEOL 120)

(GEOL 006 + GEOL 006L = C-ID GEOL 120L)

GEOL 006L Earth Science Laboratory

1.0 Unit

Prerequisite**: GEOL 006 (may enroll concurrently) General Education: IGETC: Area 5C; CSU: Area B3

Transferable to UC/CSU Hours: 48-54 lecture

The laboratory component to Earth Science including the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather, and climate.

(GEOL 006 + GEOL 006L = C-ID GEOL 120L)

GEOL 010 3.0 Units

Introduction to Geographic Information Systems

General Education: CSU: Area B1 Transferable to UC/CSU Hours: 48-54 lecture

Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Identification and acquisition of GIS data. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems, georeferencing and Global Positioning Systems (GPS). Spatial analysis and modeling with GIS. Same course as GEOG 010. Not open to students who have completed GEOG 010. (*C-ID GEOG 155*)

GEOL 049 Geology Honors

1.0 to 3.0 Units

Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.0; completion with a minimum grade of B in GEOL 001, GEOL 005, or GEOL 010; an ability to work independently; and permission of the School Dean based on instructor availability Transferable to CSU

Hours: 48-162 lab by arrangement

Requires students to engage in an independent student project. The project may be a laboratory or field study or a library study that leads to a thesis. In all cases, the final written product should show integration and synthesis of ideas. This project requires the approval of a faculty member sponsor. Students may take this course up to the maximum number of units over multiple semesters.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor
**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

HED - Health Education

HED 002 Health Education

3.0 Units HED 003 Women's Health Issues

3.0 Units

General Education: SCC: Local District Requirement; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lecture

A survey course with a multifaceted view of health with physical, mental, and social dimensions. The course extends beyond the structure and function of one's body to include feelings, values, and reasoning. Examinations and a project are required. Satisfies one-half of the Health, Physical Education graduation requirement.

General Education: SCC: Local District Requirement; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lecture

A study of health issues that are unique to women with a focus on women's health maintenance and care, and the development of skills and acquisitions of knowledge necessary to make informed choices in health matters of concern to women. Open to all students. Satisfies one-half of the Health, Physical Education graduation requirement.

HIST - History

HIST 002 World History to 1500

3.0 Units I

General Education: SCC: Area C; IGETC: Area 3B, 4; CSU: Area C2, D Transferable to UC/CSU

Hours: 48-54 lecture

An integrated study of world civilizations from their beginnings to 1500. Emphasis will be placed on a critical assessment of the cultural achievements, belief systems and economic, political and social structures of the major global civilizations. We will also study the interconnections that linked these cultures into an integrated world system during the early modern period. (*C-ID HIST 150*)

HIST 003 World History Since 1500

3.0 Units

General Education: SCC: Area C; IGETC: Area 3B, 4; CSU: Area C2, D Transferable to UC/CSU

Hours: 48-54 lecture

An integrated study of modern global history since 1500. Emphasis will be placed on the emergence of an interconnected world system in the modern era and the impact of that system on societies and cultures around the globe. The ongoing tension between tradition and modernity 'shaped by wars, revolutions, and economic transformations' forms the central theme of the course. (C-ID HIST 160)

HIST 004 3.0 Units

History of Western Civilization to 1500

General Education: SCC: Area C; IGETC: Area 3B, 4; CSU: Area C2, D Transferable to UC/CSU

Hours: 48-54 lecture

Survey of the history of the development of western culture and civilization to the Reformation. Emphasis will be on analyzing the major social, political, economic and cultural forces which have shaped European societies. (C-ID HIST 170)

HIST 005 3.0 Units

History of Western Civilization Since 1500

General Education: SCC: Area C; IGETC: Area 3B, 4; CSU: Area C2, D

Transferable to UC/CSU

Hours: 48-54 lecture

Survey of the history of western civilization from 1500 to the present. Emphasis will be on analyzing the major social, political, economic and cultural forces which have shaped modern European history. (C-ID HIST 180)

HIST 010 California History

3.0 Units

General Education: SCC: Area B2; IGETC: Area 3B, 4; CSU: Area C2, D

Transferable to UC/CSU Hours: 48-54 lecture

Survey of California history from the pre-colonial, Native American period to the modern state. Particular emphasis will be placed on the interplay of geographic, economic, political, social and cultural forces that shaped both the development of this diverse state and the experiences of a wide range of peoples who have inhabited it.

HIST 017 History of the United States to 1877 3.0 Units

General Education: SCC: Area B1; IGETC: Area 3B, 4, CSU 2;

CSU: Area C2, D, CSU 2 Transferable to UC/CSU Hours: 48-54 lecture

Survey of the history of the United States from its Native American, African and European origins through the period of Civil War and Reconstruction. Emphasis is placed on analyzing the major economic, social, political, and cultural events, movements and trends that shaped historical developments, examining cause and effect relationships and interpreting primary and secondary sources. (C-ID HIST 130)

HIST 018 3.0 Units

History of the United States from 1865

General Education: SCC: Area B1; IGETC: Area 3B, 4, CSU 2; CSU: Area C2, Area D , CSU 2

Transferable to UC/CSU
Hours: 48-54 lecture

Survey of the history of the United States from Reconstruction to the present. Examines the major economic, social, political, and cultural events that shaped the United States and their impact on American life. This course also examines the United States' increasing involvement in world affairs. Special emphasis is placed on analyzing the cause and effect relationships in U.S. history and on the historical interpretation of events and trends in U.S. history. (C-ID HIST 140)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor
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HIST - **History**

3.0 Units

HIST 028 African American History to 1877

General Education: SCC: Area B1; IGETC: Area 3B, 4, CSU 2;

CSU: Area C2, D, CSU 2 Area D

Transferable to UC/CSU Hours: 48-54 lecture

Survey of the African American experience in the United States from African origins to 1877. An emphasis is placed on the role of Africans in the settlement of North America, a comparison of colonial slave systems, and African American strategies of resistance and self-help. The course will examine the contributions of African Americans to the social, political, and economic development of the United States.

HIST 029 African American History Since 1865 3.0 Units

General Education: SCC: Area B1; IGETC: Area 3B, 4, CSU 2;

CSU: Area C2, D , CSU 2 Transferable to UC/CSU Hours: 48-54 lecture

Survey of the political, social, and economic history of African Americans from Reconstruction (1865) to the present. An emphasis is placed on the transition of African Americans from slavery to freedom, segregation, migration and urbanization, black ideology and leadership, and African American protest movements of the twentieth century. The course will closely examine the role of African Americans in shaping the American nation.

HIST 031 Mexican American/Chicano History 3.0 Units

General Education: SCC: Area B2; IGETC: Area 3B, 4; CSU: Area C2, D

Transferable to UC/CSU Hours: 48-54 lecture

Survey of Mexican American/Chicano history from the pre-Columbian civilizations of Mexico to the present. The course will emphasize the economic, social, cultural, and political conditions and events that have shaped the history of Mexican Americans/Chicanos in the United States. Special attention is given to the contributions of Mexican Americans and Mexican immigrants to the multicultural development of the United States.

HIST 037 Women in American History

3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C General Education: SCC: Area B1, E; IGETC: Area 3B, 4, CSU 2, SCC Cross-Cultural; CSU: Area C2, D , CSU 2, SCC Cross-Cultural Transferable to UC/CSU

Transferable to UC/CSC Hours: 48-54 lecture

A multi-cultural survey of American history from precolonial times to the present examining the impact of ethnic and cultural diversity, class, and gender on the lives of women.

HORT - **Horticulture**

HORT 006 4.0 Units

Identification and Ecology of Landscape Plant Materials

Course Advisory: HORT 050 Transferable to UC/CSU Hours: 48-54 lecture, 48-54 lab

Study of the identification growth habits, cultural requirements, and evaluation of landscape plant materials used for ornamental purposes in Western landscapes. Laboratory experience will emphasize the identification and use of the plant materials in various landscape settings. A collection will be required.

HORT 030 Landscape Design I

3.0 Units

Course Advisory: HORT 006; HORT 050

Transferable to UC/CSU Hours: 32-36 lecture, 48-54 lab

Introduction to the skills and techniques of landscape design principles and practices. Laboratories will stress drafting techniques through design projects. Field trips required.

HORT 031 Landscape Design II

3.0 Units

Prerequisite **: HORT 030 Course Advisory: HORT 050 Transferable to UC/CSU Hours: 32-36 lecture, 48-54 lab

Presents the association of plant materials according to design principles and their environmental requirements with attention to groupings, arrangements and planting about buildings and other landscape structures. Landscape drafting will be stressed in the laboratory projects culminating in a term design project. Mandatory field trips.

HORT 050 Introduction to Horticulture

3.0 Units

General Education: SCC: Area A

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Introduction and preview of the nursery florist, and landscaping industries including elemental landscape design, flower arranging plant identification, plant propagation, landscape tools, turf care, pest control, soil testing and basic botany. Laboratory experience will develop beginning techniques in propagation, soil testing, and turf and shrub maintenance. Mandatory field trips will be taken to various phases of the industry.

HORT 055 Soils and Fertilizers

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Study of the relationships of soils and fertilizers to proper plant growth and emphasizing analysis of soils and fertilizers. Field laboratories will develop management techniques in testing and application through exercises and field thip observations.

HORT 056 4.0 Units

Landscape Pest Control and Management

Transferable to CSU

Hours: 48-54 lecture, 48-54 lab

Study of horticultural pests, insects, weeds, diseases and other non-pathogenic causes common to the Solano County area emphasizing identification, cultural, rotational, natural and chemical control methods. Mandatory field trips and laboratory experiences will provide experiences in detection, identification and techniques necessary to manage and control various species of plant pests. A collection is required.

HORT 070 3.0 Units

Landscape Construction and Estimation

Course Advisory: HORT 050 Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Study of the construction of patios, decks, walks, retaining walls, raised planters, mowstrips, fences, overhead structures, masonry work, sprinkler layout and other landscape features with emphasis on building code specifications. Previews contractor's licensing. Site development and construction skills will be developed during the laboratory.

HORT 071 Irrigation Principles

3.0 Units

Course Advisory: HORT 055

Transferable to CSU

Hours: 32-36 lecture, 48-54 lab

Study of the principles and management of water development and use in agricultural and horticultural production with special emphasis on water supplies, measurement, movement through soils, application methods, amounts needed and problems of distribution. The field laboratories will develop management techniques through exercises and field trip observations.

HORT - **Horticulture**

HORT 101 Plant Propagation and Production 2.0 Units

Course Advisory: HORT 050 Hours: 16-18 lecture, 48-54 lab

Plant propagation and production practices with emphasis on vegetable crops, greenhouse and nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control; structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment; regulations pertaining to plant production.

HORT 301A 2.0 Units

Adaptive Horticulture - Basic Skills and Practices

Hours: 16-18 lecture, 64-72 lab

A horticulture pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn basic horticultural skills in a garden, nursery, greenhouse, and landscape setting. Students will develop an understanding of the cultural requirements of plants and how to care for them. Appropriate workplace skills will be emphasized, safety training and proper tool usage will be incorporated throughout the course. Field trips may be required.

HORT 301B 2.0 Units

Adaptive Greenhouse Management

Hours: 16-18 lecture, 64-72 lab

A greenhouse skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn greenhouse management skills for employment preparation. Field trips may be required.

HORT 301C

2.0 Units

Adaptive Nursery and Landscape Management

Hours: 16-18 lecture, 64-72 lab

A nursery and landscape skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn nursery and landscape management skills for employment preparation. Field trips may be required.

HORT 301D 2.0 Units

Adaptive Vegetable and Orchard Management

Hours: 16-18 lecture, 64-72 lab

A vegetable and orchard skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn vegetable and orchard management skills for employment preparation. Field trips may be required.

HORT 301E Adaptive Plant Propagation 2.0 Units

Hours: 16-18 lecture, 64-72 lab

A Plant propagation skills pre-vocational training course adapted for, but not limited to, students with developmental, intellectual and/or physical disabilities. Students will learn propagation management skills for employment preparation. Field trips may be required.

HS - Human Services

HS 001 Introduction to Human Services

General Education: CSU: Area D Transferable to UC/CSU

Hours: 48-54 lecture

An overview of the history and purpose of human services. Students will familiarize themselves with skills needed to provide culturally responsive services to diverse consumer populations in areas such as social welfare, mental health, substance use, rehabilitation, and child, adult and elder care. Political and economic aspects inclusive of roles and functions of local human services agencies systems will be examined.

HS 053 Serving Special Populations

Transferable to CSU Hours: 48-54 lecture

The study of the values, problems, issues, concerns and counseling needs of special population groups including, but not limited to age, gender, ethnicity, socioeconomic status, physical or psychiatric disability, sexual orientation, and chemical dependency characteristics. The course provides students with the insight, knowledge and skills necessary to work with diverse populations in human services settings.

3.0 Units

3.0 Units

HS 054 Introduction to Group Processes

Prerequisite**: HS 001

Course Advisory: COUN 062 with a minimum grde of C

Transferable to CSU Hours: 48-54 lecture

An introduction to the theory and dynamics of group interaction including psychoeducational, support and therapeutic context. The various stages and processes of group development are studied using both a conceptual and experiential approach. This course is intended to assist persons who will function as leaders in a variety of small group situations.

HS 055 Introduction To Case Management

3.0 Units

3.0 Units

Prerequisite**: COUN 062 with a minimum grade of D

Transferable to CSU Hours: 48-54 lecture

An introduction to the basic concepts and skills of case management. Focusing on the history and purpose of case management, case management concepts, legal and ethical considerations of case management, service planning and delivery, careers in case management and other topics.

UPDATED IN ADDENDUM

HUMN - Humanities

HUMN 001 What It Means To Be Human

3.0 Units

Prerequisite**: ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU Hours: 48-54 lecture

Exploration of what it means to be human by examining human life in several ways such as humans as social beings, language users, thinkers, myth makers, aggressors and peace makers, revolutionaries, scientists, and creators, and media creators and consumers. Inquiry into each category will involve critical thinking, artistic sensitivity, and historical perspective.

HUMN 002 3.0 Units

Humans As Creators: The Media of Creativity

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2 Transferable to UC/CSU

Hours: 48-54 lecture

Exploration of the varieties of ways in which humans demonstrate their creative ability ranging from a study of the creative process itself to an examination of creativity in the arts, in the sciences, and in human organization.

HUMN 003

3.0 Units

Journey In a Multicultural Landscape

General Education: SCC: Area C, E; IGETC: Area 3B, SCC Cross-Cultural; CSU: Area C2, SCC Cross-Cultural

Transferable to UC/CSU Hours: 48-54 lecture

Interdisciplinary course to help students recognize and explore sites of multicultural interaction and conflict in the U.S. by examining at least three different American ethnic cultures as well as cultural issues of gender, disability, sexual orientation, and age. Inquiry into the process of the making and representation of cultural artifacts will enable critical appraisal and appreciation, interpersonal sensitivity and multicultural perspective.

IT - Industrial Technology

IT 050 Alternative Energy Technologies

3.0 Units

IT 140 Industrial Materials

3.0 Units

Transferable to CSU Hours: 48-54 lecture

Introduces the topics of power generation, transmission, and consumption of both conventional and alternative energy sources. Students will be exposed to an indepth analysis of the design and use of fossil fuel based systems and then compare those systems to alternatives. Energy use in transportation, industrial, commercial, and residential applications will be examined.

IT 101 Introduction to Mechatronics

3.0 Units

Hours: 32-36 lecture, 48-54 lab

Provides an understanding of how mechatronic technology in our lives works using only basic science and math concepts. This course explores basic mechatronic systems commonly found in industry and focuses on their principles of operation, histories, and relationships to one another. Topics will include an exploration of and science behind basic mechanics, fluid power, electrical power, and control systems. Students will learn about these mechatronic technologies through lecture, classroom discussion, and laboratory experiments and projects.

IT 110 Modern Welding

3.0 Units

Hours: 32-36 lecture, 48-54 lab

Acquaints the student with MIG and TIG welding methods and knowledge necessary to weld in all positions utilizing the mild steel, low hydrogen electrodes, metal inert gas and tungsten inert gas techniques.

IT 111 Modern Welding

3.0 Units

Prerequisite**: IT 110 with a minimum grade of D Hours: 32-36 lecture, 48-54 lab

Aquaints the student with MIG and TIG welding methods and knowledge necessary to weld in all positions utilizing the mild steel, low hydrogen electrodes, metal inert gas and tungsten inert gas techniques.

IT 120 Electrical Safety

1.0 to 3.0 Units

Hours: 16-54 lecture

A survey of the proper use, handling, and hazards associated with electrical and electronic equipment. The student will be introduced to the current generally accepted (National Electrical Safety Code) safety practices and procedures associated with power transmission, industrial, and consumer electrical and electronic equipment. This is an Open Entry/Open Exit course. Students may take this course up to the maximum number of units over multiple semesters.

Hours: 32-36 lecture, 48-54 lab

A broad overview of the characteristics and comparative qualities of naturally occurring, alloyed and man-made materials used in industry. Testing and practical use of materials are required.

IT 151 Vocational Mathematics

3.0 Units

Hours: 48-54 lecture

Focuses on mathematical functions, plane and solid geometry, measurement systems, algebra, and trigonometry applied to specific vocational areas.

IT 171 Making Things 1 - 3D Technology

1.0 Unit

Hours: 16-18 lecture, 8-9 lab

A hands-on course using 3-Dimensional Computer Aided Drafting (CAD) tools to create objects with a 3D printer and Computer Numeric Controlled (CNC) machine. Students will gain a basic understanding of design to product workflow as well as the basics of 3D printing and CNC machines, including applications and use in industry.

Making Things 2 - 2D Technology 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

A hands-on course using 2-Dimensional Computer Aided Drafting (CAD) tools to create objects with a laser cutter and vinyl cutter. Students will gain a basic understanding of safety, design, and project workflow as well as the basics of each machine's uses in industry.

Making Things 3 - Tool Use and Safety 1.0 Unit IT 173

Hours: 16-18 lecture, 8-9 lab

Introduction to Maker Space terminology and safety standards for hand and power tools in a laboratory setting. Students learn proper usage and applications of common hand and power tools pertinent to Maker Space laboratory and some industrial settings.

Making Things 4 - Basic Electronics 1.0 Unit

Hours: 16-18 lecture, 8-9 lab

A hands-on introduction to basic electronics and microcontrollers used in a Maker Space environment. Students will learn basic soldering techniques, electronic terminology and circuitry, and simple programming of devices such as Arduino and Raspberry Pi.

IT - Industrial Technology

1.5 Units

IT 175 Maker Space Technology Lab

Prerequisite **: IT 171, IT 172, IT 173, and IT 174

Hours: 72-81 lab

Utilize the full range of Maker Space equipment to create and design projects in the Maker Space laboratory. Students will create designs using instructor-given parameters in order to gain more skill on machines used in IT 171, IT 172, IT 173 and IT 174.

Maker Space Technology Lab II

1.5 Units Prerequisite **: IT 175 and IT 179

Hours: 72-81 lab

Utilize the full range of Maker Space equipment to create and design projects in the Maker Space laboratory. An emphasis will be given to multiple tooled projects (3D printing and electronics or laser cutting and woodworking, for example). Students will create designs using instructorgiven parameters, plan projects and analyze results.

IT 179 1.0 Unit

Making Things 5 - Sewing Fundamentals

Hours: 16-18 lecture, 8-9 lab

Introduces students to industry sewing techniques with an emphasis on safe and appropriate operation of consumer and industrial sewing machines and tools. Students produce projects by applying the techniques taught in the course as a foundation to the understanding of pattern construction, manufacturing, and production. Designed for students with little to no sewing experience.

IT 181 Introduction to Drones

3.0 Units

Hours: 48-54 lecture

An introduction to Drones and Unmanned Aerial Vehicles. Provides a starting point to use drones for multiple purposes and careers. Topics include the basics of aviation and flight, classes of drone systems, applications, required equipment, maintenance, mission planning, control systems, recovery systems and regulations. Intended for those looking to become licensed to use drones for commercial purposes such as aerial cinematography, photography, surveying, and imaging.

IT 182 **Basic Drone Operations**

3.0 Units

Prerequisite **: IT 181

Hours: 32-36 lecture, 48-54 lab

Basic flight operation, drone controls, and equipment as well as safety procedures. Students will understand the varied uses of unmanned aviation vehicles (UAV) and learn the Federal Aviation Administration (FAA) guidelines for commercial usage.

IT 183 Drone Photography and Video

3.0 Units

Prerequisite **: IT 182

Hours: 32-36 lecture, 48-54 lab

Covers the use of cameras and sensors to capture and analyze aerial photos and video. Camera and sensor mounting, settings, accessories, image analysis, options, software, and best practices will be explored.

Remote Pilot Exam Prep IT 184

1.5 Units

Prerequisite **: IT 182 Hours: 24-27 lecture.

Covers the aeronautical knowledge required to fly drones for commercial purposes. Prepares the student to take the Federal Aviation Administration (FAA) Part 107 examination.

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JOUR - Journalism

JOUR 001 Newswriting & Reporting

3.0 Units

Prerequisite**: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation Transferable to UC/CSU

Hours: 48-54 lecture

Theory and practice of writing news stories for the media. The student learns effective writing and interviewing strategies, common story structures, grammar and style rules, libel and privacy laws. (C-ID JOUR 110)

JOUR 002 3.0 Units

Introduction to Feature and Magazine Writing

Prerequisite**: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation Transferable to UC/CSU

Hours: 48-54 lecture

Theory and practice of feature writing, including profiles, critical reviews, opinion columns, travel, news features and trend stories. Students learn research and reporting methods, grammar and style rules, libel and privacy laws, and tools for marketing their stories.

JOUR 011 3.0 Units

Introduction to Mass Communication

Prerequisite**: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation General Education: SCC: Area B2; IGETC: Area 4; CSU:

Area D

Transferable to UC/CSU Hours: 48-54 lecture

Study of the mass media including newspapers, magazines, radio, television, motion pictures and advertising which examines the standards, ethics, and rights of the media and the relationship of government and the public to the various media forms. Emphasis is on the functions, limitations, and responsibilities of the press, as well as the past, present and future impact on society and the individual. Attention will be given to theories of persuasion, the symbolic power and manipulation of images, and the relationship between information and knowledge. Essay examinations and critical papers are required. (*C-ID JOUR 100*)

JOUR 050 Grammar & Style for Media Writers 1.0 Unit

Prerequisite **: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation Transferable to CSU

Hours: 16-18 lecture

Intensive review of grammar, word use, spelling, and principles of clear, concise writing for the media. This course is a Pass/No Pass only course.

JOUR 059 News Media Laboratory

1.0 Unit

Transferable to CSU Hours: 48-54 lab

Intended for non-journalism majors to learn the fundamentals of media reporting while working as a staff member of the student news publications, *The Tempest* newspaper and the *SolanoTempest.net* website. Students may work in the areas of writing, photography, illustration or multimedia, and will be introduced to: journalistic laws and ethics, opinion and news writing, covering the campus community, working on deadline, visual communication, and working on a team to produce a journalistic product for distribution to a campus-wide audience. Students are limited to four classes within the Publications Laboratory family. Journalism majors should enroll in Journalism 060.

JOUR 060 Publications Laboratory

3.0 Units

Prerequisite**: Eligibility for ENGL 001 or recommendation of counselor or English instructor based on a Multiple Measures Evaluation Transferable to CSU

Hours: 144-162 lab

Focuses on creating content and producing the student news publications, *The Tempest* newspaper and the *SolanoTempest.net* website, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Journalistic ethics and legal aspects will be covered. Students will work primarily in one of the following areas: researching, writing and editing articles, taking photographs, creating illustrations, creating multimedia stories, or designing pages and graphics. Students are limited to four classes within the Publications Laboratory family. *(C-ID JOUR 130)*

JOUR 061 Publications Laboratory II

3.0 Units

Prerequisite**: JOUR 060 Transferable to CSU

Hours: 112-126 lecture, 32-36 lab

Intermediate journalism students will broaden their newsgathering skills while creating content for and producing the student news publications, *The Tempest* newspaper and the *SolanoTempest.net* website. This is a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Journalistic ethics and legal aspects will be covered. Students will work primarily in two of the following areas: researching, writing and editing articles, taking photographs, creating illustrations, creating multimedia stories, or designing pages and graphics. Students are limited to four classes within the Publications Laboratory family. *(C-ID JOUR 131)*

JOUR - Journalism

JOUR 062 Publications Laboratory III

2.0 to 3.0 Units

Prerequisite**: JOUR 061 Transferable to CSU Hours: 96-162 lab

Intermediate journalism students will provide editorial leadership and in-depth coverage for the student news publications, *The Tempest* newspaper and the *SolanoTempest.net* website, as a practical laboratory that produces a journalistic product for distribution to a college-wide audience. Journalistic ethics and legal aspects will be covered. Students will work primarily in three of the following areas: editorial leadership, in-depth coverage, researching, writing and editing articles, taking photographs, creating illustrations, creating multimedia stories, or designing pages and graphics. Students are limited to four classes within the Publications Laboratory family.

JOUR 064 Publications Portfolio

1.0 Unit

Prerequisite**: JOUR 062 Transferable to CSU Hours: 48-54 lab

Students with prior instruction in reporting, editing, photography, illustration, design or digital media will integrate their journalism skills to provide editorial leadership and/or create published works for the student news publications, *The Tempest* newspaper and the *SolanoTempest.net* website, while learning the basic principles of preparing a professional portfolio. An intermediate class for students preparing for employment in journalism and related fields. Students are limited to four classes within the publications family.

JOUR 075

3.0 Units

Intermediate Newswriting and Reporting

Prerequisite**: JOUR 001 Transferable to CSU Hours: 48-54 lecture

A continuation of the introductory newswriting/ reporting course and focuses on beat coverage including government, public safety, courts, and education for various news media platforms. Students will learn research and reporting methods and how to report for a variety of news purposes including: news, opinion, social issues, and feature or investigative pieces.

JOUR 099

1.0 to 3.0 Units

Journalism Honors: Field Study

Prerequisite**: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; and permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

Independent study course designed for students who have successfully completed at least two journalism classes and wish to do field work. The student works by arrangement with the instructor.

KINE 002A Beginning Swimming

1.0 Unit

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU Hours: 48-54 lab

Fundamental techniques of swimming, terminology, water adjustment, fluid mechanics, and water safety. Swimming strokes include freestyle and backstroke. Skills and written exams are used to evaluate student achievement.

KINE 002B Intermediate Swimming

Course Advisory: KINE 002A with a minimum grade of C

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU Hours: 48-54 lab

Intermediate techniques of swimming, terminology, and fluid mechanics. Swimming strokes include freestyle, backstroke, breaststroke, and butterfly. Racing starts, flip turns, and touch turns are taught on a beginning level. Interval training concepts are introduced. Skills and written

KINE 002D Swim for Fitness

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

exams are used to evaluate student achievement.

Hours: 48-54 lab

Provides life-long fitness through cardiovascular endurance training and skill development in basic aquatics skills. The major components which make up a swimming workout and the concepts of interval training and sprint and distance training are included. Skills exams and written exams serve to evaluate student achievement.

KINE 003A Beginning Self Defense

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Equips the student with basic skills and knowledge for protection against physical assault. Includes basic fighting techniques, falls and recoveries, and disengagements with counter-attacks. Also included are developing a self-defense consciousness and knowledge about self-defense and the law.

KINE 003D Beginning Judo

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

A basic judo course including techniques such as falls, holds, chokes, grips, grip breaks, balance breaks, and application of reverse locks. Strategies for the judo contest are included such as defenses, counters, break-up throws, take-downs, and general mat work. A historical overview of the martial arts is offered with an emphasis on the evolution of modern-day judo. Written and skills exams are used to measure student achievement. Field trip may be required.

KINE 003E Intermediate Judo

1.0 Unit

Course Advisory: KINE 003D with a minimum grade of C

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU Hours: 48-54 lab

Advanced throwing and grappling techniques.

Combinations, transitions, and strategies will also be covered. Competition at the local level tournaments will be an option for interested students.

KINE 005C Fitness for Life

2.0 Units

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 16-18 lecture, 48-54 lab

An individualized approach to fitness with a focus on the individual's personal responsibility for his/her fitness and health throughout life. The study of the physiological changes one undergoes as a result of physical conditioning forms the basis for the development of a lifetime fitness plan. Fitness exams and written exams serve to evaluate student achievement.

KINE 005D Circuit Training

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

A fast-paced circuit where students participate in a balanced strength training program that includes upper body, lower body, and core exercises using free weights, machine weights, resistance bands, and their own body weight.

KINE 005E Cardio Conditioning

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Designed for students who desire a cardiovascular workout. Students will use cardio equipment including treadmills, stationary bikes, elliptical machines, and stair masters. Students may also perform cardio activity outside. Students will learn the important factor of pace, steadily improve their endurance, and learn how to design their own cardiovascular workout to achieve their own personal fitness goals.

KINE 005J Beginning Body Conditioning

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

An activity course that will include all aspects of a complete fitness program: muscle strength and endurance training, cardio-respiratory endurance training, flexibility training, and body composition analysis. Students will learn to design their own exercise programs to achieve their personal fitness goals.

KINE 005K Intermediate Body Conditioning 1.0 Unit

Course Advisory: KINE 005L with a minimum grade of C General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

An activity course that will include all aspects of a complete fitness program: muscle strength and endurance training, cardio-respiratory endurance training, flexibility training, and body composition analysis. Students will build on their knowledge and fitness levels achieved in the beginning class.

KINE 005M Beginning Weight Training 1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

A comprehensive weight training course for men and women with a focus on strength development and muscle hypertrophy. Resistive exercises via free weights and fixed weights are used for the development of every major muscle group. Students will learn to design their own strength training programs to achieve their personal fitness goals.

KINE 005N Intermediate Weight Training

1.0 Unit

Course Advisory: KINE 005M with a minimum grade of C General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

A comprehensive weight training course for men and women that will build on strength development and muscle hypertrophy developed in the beginning course. Resistive exercises via free weights and fixed weights are used for the development of every major muscle group. Special emphasis will be directed at helping individuals define and concentrate on personalized fitness goals.

KINE 005P Step Aerobics

1.0 Unit

General Education: SCC: Local District Requirement, *A
Transferable to UC/CSU

Hours: 48-54 lab

An aerobic exercise program utilizing four inch, six inch, and eight inch step platforms. Class format includes warm-up, pre-aerobics, peak aerobics, aerobic cool down as determined by musical beats per minute (BPM). Body toning, strength building and flexibility components of the workout will be included to provide the student with a well-rounded fitness program.

KINE 005Q Elite Fitness Training

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

A lifelong functional fitness training course designed for students who want to challenge their current level of fitness and performance. This course will increase a student's performance and knowledge through research and current training methods.

KINE 005R Functional & Core Training 1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

A focus on functional and core conditioning for students in physically demanding sports, fitness activities and professions. This course will help improve performance by utilizing the components of endurance, power, agility, strength, speed, stamina, flexibility, coordination, and balance.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor
**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

KINE 005S Advanced Elite Fitness

1.0 Unit

KINE 006E Fundamentals of Yoga

Course Advisory: KINE 005Q with a minimum grade of C General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lab

An advanced lifelong functional fitness training and educational course designed specifically for students who want to reach their highest level of fitness and peak performance. This course will increase a students' performance and knowledge by incorporating current research and advanced training methods to increase strength, stamina, and reduce injury risks.

KINE 006A Cardio Kickboxing

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

An aerobic exercise program utilizing non-contact kickboxing techniques. Class format includes warmup, pre-aerobics, peak aerobics and aerobic cool down as determined by musical beats per minutes (BPM). Hand weights, step boxes, and other equipment may be used for additional lower and upper body strength and conditioning. A flexibility cool-down will conclude the exercise session.

KINE 006C Pilates for Fitness

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Utilizes Pilates techniques that can increase strength, flexibility and endurance. Pilates exercises can improve posture, alignment coordination, and balance. This course is targeted to improve core strength and overall fitness.

KINE 006D Intermediate Cardio Kickboxing

1.0 Unit

Course Advisory: KINE 006A with a minimum grade of C General Education: SCC: Local District Requirement, *A

Transferable to UC/CSU Hours: 48-54 lab

An aerobic exercise program utilizing non-contact kickboxing techniques. Emphasis will be placed on learning a variety of punches and kicks. Hand weights, step boxes, and other equipment may be used for additional lower and upper body strength and conditioning.

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Development of basic yoga postures, breathing practices, stretching and relaxation techniques as methods to improve flexibility, decrease stress and improve physical and mental well-being.

KINE 006F Intermediate Yoga

1.0 Unit

Course Advisory: KINE 006E with a minimum grade of C General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Expand upon the techniques and philosophies of beginning yoga. Students will be exposed to intermediate postures, various specific yoga systems and additional philosophies of yoga from the masters.

KINE 007D **Beginning Golf**

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Beginning instruction and practice in fundamental golf strokes such as putting, chipping, pitching, and driving with irons and woods. Golf rules, strategies, etiquette, and selection and care of equipment are also covered. A field trip to a municipal golf course and golfing range may be required. Golf clubs are available for student use. Students may be responsible for reasonable greens fees.

KINE 007E Intermediate Golf

1.0 Unit

Course Advisory: KINE 007D

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Intermediate-level instruction and practice in golf strokes such as putting, chipping, pitching, and driving with irons and woods. Golf rules, strategies, etiquette, and selection and care of equipment are also covered. A field trip to a municipal golf course and golfing range may be required. Golf clubs are available for student use. Students may be responsible for reasonable greens fees.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor **All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

KINE 007F Beginning Archery

1.0 Unit

KINE 008E **Beginning Badminton** 1.0 Unit General Education: SCC: Local District Requirement, *A; CSU: Area E

Basic skills of Badminton: forehand, backhand, service, the

clears and the smash. Also covered are singles and doubles

strategy. History, terminology, rules and scoring, and care

and selection of equipment are included. Skills exams and

Transferable to UC/CSU

Hours: 48-54 lab

Hours: 48-54 lab

Transferable to UC/CSU

Fundamental techniques of archery, terminology, accessories, and history of the sport. Practice and class competitions are provided to enhance skill development.

General Education: SCC: Local District Requirement, *A; CSU: Area E

Written and skills exams serve to evaluate student achievement.

KINE 007G Intermediate Archery

1.0 Unit

Course Advisory: KINE 007F

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lab

Improve archery skills and introduce field archery and dynamic (moving) target shooting. Students will learn to perform at international and Olympic distances.

KINE 008A **Beginning Tennis**

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lab

The fundamental techniques of tennis: forehand, backhand, basic serve, and volley. Terminology, rules, and history are included. Practice, skill drills, and class competition in both singles and doubles are provided to enhance skill development and game strategy. Skills exams and written exams serve to evaluate student achievement.

KINE 008B **Intermediate Tennis**

1.0 Unit

1.0 Unit

Course Advisory: KINE 008A with a minimum grade of C

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lab

Intermediate techniques of tennis: overhead shot, drop shot, volley, serves, and offensive and defensive lobs. Strategy for competitive play is emphasized. Skills exams and written exams serve to evaluate student achievement.

KINE 008D Advanced Tennis

Course Advisory: KINE 008B; 1 year experience high school team tennis and/or club tennis tournament experience

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to CSU

Hours: 48-54 lab

Advanced instruction in the techniques, tactics and strategies associated with competitive tennis. Special emphasis placed on drills and competitive play situations. KINE 008F **Intermediate Badminton** 1.0 Unit

written exams serve to evaluate student achievement.

Course Advisory: KINE 008E with a minimum grade of C General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lab

Intermediate badminton skills: clears-cross court, down the line and reverse cross-court; drops - at the net, from the backcourt and from the mid-court; service - forehand and backhand. Also covered are offensive and defensive techniques of the smash. Training drills, agility, endurance and court coverage for competitive play will be taught. Skill exams and written exams serve to evaluate student achievement.

KINE 009A **Beginning Basketball**

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

An activity course for the student who desires to play basketball. Basic drills to improve footwork, shooting, passing, ball handling, and rebounding are performed. Basic offensive and defensive concepts are covered to prepare the student for 3 on 3, 4 on 4, and 5 on 5 competition in class. Basketball rules and terminology are included.

KINE 009B Indoor/Outdoor Soccer

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Fundamental techniques of soccer: terminology, rules, and history. Practice, skills drills, and class competitions are provided to enhance skill development and game strategy. A written final exam and skills exams serve to evaluate student achievement.

KINE 009C Intermediate Soccer

1.0 Unit

KINE 009H Beginning Volleyball

1.0 Unit

Prerequisite **: KINE 009B

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lab

Intermediate soccer skills acquired through team competition. Emphasis is placed upon offensive and defensive tactics and strategies. Develop knowledge and understanding of the current collegiate soccer rules and fitness.

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KINE 009E Intermediate Basketball

1.0 Unit

Course Advisory: KINE 009A with a minimum grade of C General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU Hours: 48-54 lab.

An activity course covering advanced basketball drills to improve footwork, shooting, passing, ball handling, and rebounding are performed. More advanced offensive and defensive concepts are covered to prepare the student for 3 on 3, 4 on 4, and 5 on 5 competition in class. Basketball rules and terminology are included.

KINE 009F Beginning Baseball

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Fundamental skills of baseball: throwing, catching, fielding, catching fly balls, hitting, bunting, base running, sliding, and playing defensive positions. Offensive and defensive drills practiced in preparation for controlled competition in class. History, rules, and terminology are included. Skills exams and written exams serve to evaluate student achievement.

KINE 009G Softball

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

Fundamental techniques of softball, including terminology, rules and history. Practice, skill drills, and class competitions are provided to enhance skill development and game strategy. Skills exams and a written final exam serve to evaluate student achievement. Students must provide their own glove.

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lab

A comprehensive course that covers the basic volleyball skills: serve, pass, set attack, and block. Skill development is emphasized. This course presents information on team play, rules, history, and basic game strategy. Physical conditioning is an integral part of the course. Skills exams and written exams serve to evaluate student achievement.

KINE 009P Intermediate Volleyball

1.0 Unit

Course Advisory: KINE 009H

General Education: SCC: Local District Requirement, *A; CSU: Area E

Transferable to UC/CSU

Hours: 48-54 lab

Fundamental volleyball skills at an intermediate level: serve, pass, set, attack, and block. The course focuses on offensive and defensive tactics and strategies in preparation for high-level competitive play. A comprehensive physical conditioning program is included to prepare the player for the rigors of volleyball activity.

KINE 020A Introduction to Kinesiology

3.0 Units

General Education: SCC: Local District Requirement, *A
Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. (C-ID KIN 100)

KINE 020S 3.0 Units

Advanced First Aid and Emergency Care

Transferable to UC/CSU

Hours: 48-54 lecture

Prepares individuals who may administer emergency care to the injured and ill. Upon successful completion of the course, students will be knowledgeable in Advanced First Aid and Emergency Care, cardiopulmonary resuscitation (CPR), and Automatic External Defibrillator (AED) for infants, children, and adults. Upon successful completion of the appropriate exam, the student will be eligible for certification in First Responder First Aid and CPR. Required of Kinesiology majors/minors and Transfer Model Curriculum. An additional fee may be required to receive an official American Red Cross CPR card. An American Heart Association certification is required for students pursuing EMT certification. (C-ID KIN 101)

KINE 020V Introduction to Sports Science 3.0 Units

General Education: SCC: Local District Requirement; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lecture

The basic elements of sport sciences including: kinesiology, motor learning, biomechanics, exercise physiology, sports medicine, sport psychology and training theory.

KINE 020W 3.0 Units

Principles of Fitness & Sports Training

General Education: SCC: Local District Requirement; CSU: Area E

Transferable to UC/CSU
Hours: 48-54 lecture

A comprehensive fitness course that includes the study of the human organism and its reactions to fitness and physical activity. Focus is on the physiological adaptations, exercise training/prescriptions, nutrition, ergogenic aids, environmental factors, and the major medical and health conditions. Written exams and measurements of activity serve to evaluate student achievement.

KINE 057 Introduction to Sports Psychology 3.0 Units

General Education: SCC: Local District Requirement

Transferable to CSU Hours: 48-54 lecture

Introduction to psychological theories, concepts, strategies and skills designed to help individuals overcome the barriers to optimal athletic performance, exercise performance and general health performance. Mental skills such as imagery, goal setting, cognitive restructuring, attentional focusing, arousal regulation, and coping will be presented. With this course students establish a goal(s) and work toward it while aiming to cultivate the ideal mental state that fosters optimal performance.

KINE 078 Fit Ball Training

1.0 Unit

General Education: SCC: Local District Requirement, *A; CSU: Area E Transferable to UC/CSU

Hours: 48-54 lecture

Utilize fitness ball techniques to increase strength, flexibility, endurance and lean body composition. Fitness ball exercises can help to improve and develop functionality and agility through strengthening weak muscles as well as core muscles. Students will learn to safely and effectively execute flexibility exercises and balancing exercises as well as strengthening exercises for all the major muscle groups with and without hand weights. Skill exams and written exams serve to evaluate student achievement.

LR - Learning Resources

LR 010 1.0 Unit LR 011 1.5 Units

Information Skills for College and Beyond

General Education: SCC: Area B2, Area D3

Transferable to UC/CSU Hours: 16-18 lecture

Introduction to information literacy skills necessary for academic, career, and personal life success in the digital age. Psychological, sociological, and physiological implications of information on daily life, education, work, and social relationships will be explored. Critical skills helpful for managing information needs in college, career, and lifelong learning will be emphasized.

Internet Explored: Advanced Information Competency

Course Advisory: Computer literacy (familiarity with basic computer

Transferable to UC/CSU Hours: 24-27 lecture

An advanced information competency course evaluating information and exploring information technology in society including Internet, World Wide Web, search engines (e.g., Google, Ask, Live), retrieval systems, and electronic publishing.

MATH 002

4.0 Units

3.0 Units

Algebra for Calculus (College Algebra)

Prerequisite**: MATH 104 or a Multiple Measures Evaluation. MATH 104 is highly recommended for students who have not completed Algebra 2 or Integrated Math III in high school with a minimum grade of C. General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4 Transferable to UC/CSU

Hours: 64-72 lecture

Develops the skills and introduces the concepts necessary for further study in mathematics, and facilitate the application of those skills and concepts to other fields. Included is a review of elementary set algebra; the algebra of functions; the real and complex numbers as a field; algebraic, exponential, and logarithmic functions; equations and inequalities of these functions; solution of linear systems, matrix algebra, and introduction to sequences and series. (C-ID MATH 151)

MATH 004 Precalculus and Trigonometry 6.0 Units

Prerequisite**: MATH 103 and MATH 104 or recommendation based on a Multiple Measures Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU Hours: 96-108 lecture

A comprehensive study of mathematics that is prerequisite to the calculus sequence. Topics included are the study of polynomial, absolute value, radical, rational, exponential, and logarithmic functions, analytic geometry, and polar coordinates. The study of trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, and introduction to vectors. Note: Not open for enrollment to students who have completed Math 051 or Math 002 with a minimum grade of C. Assignments may be given to students that require completion in the Math Activity Center.

MATH 011 Elementary Statistics

4.0 Units

Prerequisite**: MATH 104 or MATH 112 or Multiple Measures Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU Hours: 64-72 lecture

An introduction to elementary probability and statistics including the basic rules of probability, probability distributions, descriptive statistics, hypothesis testing, estimation, correlation and regression analysis using data from a variety of disciplines and appropriate technology. Assignments may be given that require completion in the Math Activities Center. (C-ID MATH 110)

MATH 012 Mathematical Ideas

Prerequisite**: MATH 104 or MATH 112 or Multiple Measures Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU:

Area B4

Transferable to UC/CSU Hours: 48-54 lecture, 16-18 lab

An introduction to the diversity of mathematics through the examination of ideas from logic, sets, the numeration systems, and other topics from contemporary mathematics. The emphasis is on problem solving.

MATH 020 Analytic Geometry and Calculus I 5.0 Units

Prerequisite**: MATH 002 and MATH 051; or MATH 004 General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU Hours: 80-90 lecture

First of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, is the study of the differential and integral calculus of functions of one variable. Topics covered are limits, continuity, differentiation of algebraic and transcendental functions, applications of the derivative, definite and indefinite integrals, fundamental theorem of calculus, and applications of the definite integral. (C-ID MATH 210)

MATH 021 Analytic Geometry and Calculus II 5.0 Units

Prerequisite**: MATH 020

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU Hours: 80-90 lecture

Second of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, continues the study of the differential and integral calculus of functions of one variable. Topics included are introduction to differential equations, computing area and volume, applications and techniques of integration, polar coordinates, infinite series, improper integrals, and L'Hopital's Rule. (C-ID MATH 220)

MATH 022

4.0 Units

MATH 031 Business Calculus II

3.0 Units

Analytic Geometry and Calculus III

Prerequisite **: MATH 021

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Transferable to UC/CSU Hours: 64-72 lecture

Third of the three-semester sequence in Analytic Geometry and Calculus for students majoring in mathematics, engineering, and most physical sciences, is a study of three-dimensional analytic geometry, vectors and vector-valued functions, functions of several variables, the calculus of these functions, and vector analysis including Green's and Stokes' theorems. (C-ID MATH 230)

MATH 023 Differential Equations

4.0 Units

Prerequisite**: MATH 021
Transferable to UC/CSU

General Education: SCC: Area D2; IGETC: Area 2; CSU: Area B4

Hours: 64-72 lecture

Ordinary differential equations emphasizing linear differential equations and systems with applications to engineering, physics, and chemistry. Included are Laplace transforms and power series methods of solution. (C-ID MATH 240)

MATH 026

4.0 Units

Mathematics and Engineering Problem Solving Using Matlab

Prerequisite**: MATH 021 (may enroll concurrently)

Transferable to UC/CSU

Hours: 48-54 lecture, 48-54 lab by arrangement

Covers methodologies for solving mathematics and engineering problems. Students will also learn to perform mathematics and engineering computation and visualization using the MATLAB language. Students will write a variety of programs in the MATLAB language. Same course as ENGR 026.

MATH 030 Business Calculus I

3.0 Units

Prerequisite**: Math 104 or placement based on a Multiple Measures Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU:

Area B4

Transferable to UC/CSU

Hours: 48-54 lecture, 16-18 lab

A calculus course with emphasis placed on applications of calculus concepts to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied. (C-ID MATH 140)

Prerequisite**: MATH 030 or placement based on a Multiple Measures

Evaluation

General Education: SCC: Area D2; IGETC: Area 2; CSU:

Area B4

Transferable to UC/CSU Hours: 48-54 lecture, 16-18 lab

A continuation of the calculus of functions of one variable (MATH 030). Topics included are the fundamental theorem of calculus, techniques of integration, numerical methods of integration, functions of several variables, elementary differential equations, and infinite series.

MATH 040 Introduction to Linear Algebra 3.0 Units

Prerequisite **: MATH 021

Course Advisory: A relatively high degree of mathematical maturity is

required for this course

General Education: SCC: Area D2; IGETC: Area 2; CSU:

Area B4

Transferable to UC/CSU Hours: 48-54 lecture

Introduction to linear algebra, with a focus on finite dimensional real vector spaces. Topics include systems of linear equations and matrices, linear transformations, general vector spaces, eigenvectors and eigenvalues and associated eigenspaces, inner products and orthogonality. (C-ID MATH 250)

MATH 049 Mathematics Honors 1.0 to 3.0 Units

Prerequisite **: MATH 021 with a minimum grade of B

General Education: CSU: Area B4

Transferable to CSU

Hours: 48-162 lab by arrangement

Requires students to complete an independent student project under the supervision of a member of the faculty. The project may involve extensive problem solving, research, or data analysis. In all cases, the final written product should show integration and synthesis of ideas. Students may take this course up to the maximum number of units over multiple semesters. This course requires approval of a faculty member sponsor and the Dean of the School of Math & Sciences.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor
**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

MATH 051 Trigonometry

3.0 Units MATH 112

4.0 Units

Prerequisite**: MATH 103 and MATH 104 or placement based on a

Multiple Measures Evaluation

General Education: SCC: Area D2; CSU: Area B4

Transferable to CSU Hours: 48-54 lecture

Presents the essentials of plane trigonometry to prepare students for subsequent studies in physics, calculus, or related technical programs. Topics include definitions of the trigonometric functions and inverse trigonometric functions, solutions of triangles and applied problems, graphs, trigonometric identities and equations, and the trigonometric form of complex numbers. (C-ID MATH 851)

MATH 055 3.0 Units

Mathematical Concepts for Elementary School Teachers

Prerequisite**: MATH 104 or MATH 112 or Successful completion of two years of high school algebra or recommendation based on a Multiple Measures Evaluation.

General Education: CSU: Area B4

Transferable to UC/CSU Hours: 48-54 lecture.

Focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. (C-ID MATH 120)

MATH 103 Plane Geometry 3.0 Units

Course Advisory: MATH 330 or MATH 330B with a minimum grade of C i

Hours: 48-54 lecture

The study of Euclidean (plane) geometry through conjecture, proof, and problem solving. Topics include the mathematical relationships of angles, parallels, triangles, quadrilaterals, circles, and solids. Additionally, coordinate geometry transformations are covered. Assignments may be given that require completion in the Math Activities Center.

MATH 104 Intermediate Algebra

5.0 Units

Course Advisory: MATH 330 General Education: SCC: Area D2 Hours: 80-90 lecture, 16-18 lab

An extension of the fundamental algebraic concepts developed in Elementary Algebra. Additional topics include arithmetic operations on functions; composition of functions; basic graphing techniques; absolute value, exponential, logarithmic, quadratic, linear, and polynomial functions; equations of the second degree and their graphs; complex numbers; and systems of linear equations in two and three variables. Assignments may be given that require completion in the Math Activities Center.

Intermediate Algebra for Liberal Arts

Course Advisory: A minimum grade of C in MATH 330

General Education: SCC: Area D2 Hours: 64-72 lecture, 16-18 lab

Students will develop their ability to solve problems with algebraic reasoning and learn to effectively communicate their solutions. Topics include number sense, functions, use of linear and exponential functions to model bivariate data, logarithms and an introduction to descriptive statistics and probability. This course is designed to meet the mathematics graduation requirement for an Associate Degree. This course can also be taken by students planning to transfer to a four-year institution and major in an area of liberal arts (non-STEM majors) that requires either Statistics (MATH 011) or Math Ideas (MATH 012). Students who need a calculus course must take MATH 104 in preparation for pre-calculus. All transfer students should consult with a counselor or mathematics instructor for advice on whether to take MATH 112 or MATH 104. Lab hours may be scheduled or TBA depending on the section. Students are expected to complete both the lecture and lab portions of the course.

MATH 160 Math for Nursing School Students 0.5 Unit

Prerequisite**: Current acceptance or on the waiting list of an RN Program.

Hours: 8-9 lecture

Focuses on mathematics topics that are critical to success for students entering an RN program. This course provides a review of select mathematics topics for students entering nursing school. It is especially designed for students that have had an extended time period between finishing their pre-nursing requirements and entering nursing school. Pass/No Pass only course.

MATH 305 Prepare for Math Success 0.5 Unit

Hours: 8-9 lecture

Review basic skills math topics from the last math course previously completed with the online math review program. In addition, students will explore and improve their math study skills. Students will need access to the internet.

MATH 310 Arithmetic

3.0 Units

Hours: 64-72 lecture

A course in basic mathematical computations designed to improve arithmetic skills and prepare the student for a pre-algebra level math course. Major topics include whole numbers, fractions, decimals, percents, simple geometry, measurement, and basic statistics.

0.5 Unit

4.0 Units

5.0 Units

MATH 311 Elementary Statistics Support

Corequisite: MATH 011 Hours: 32-36 lab

A review of the core prerequisite skills, competencies, and concepts needed in statistics. Intended for students who are concurrently enrolled in MATH 011, Elementary Statistics. Topics include concepts from arithmetic, prealgebra, 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. Enrollment in the course may occur as a result of the recommendation of a counselor or math instructor based on a Multiple Measures Evaluation. This course is Pass/No Pass only.

MATH 320 Pre-Algebra

Hours: 64-72 lecture, 16-18 lab

Designed to prepare the student for transition into a beginning algebra course. Major topics include operations on integers and rational numbers, the order of operations, introduction to variables, simplifying and evaluating expressions, solving basic linear equations, proportions, percents, basic geometry, graphing, and application problems.

MATH 330 Elementary Algebra

Course Advisory: MATH 320 with a minimum grade of C Hours: 80-90 lecture

Introductory examination of the structure of the number system. Covers such topics as an introduction to set operations, the field axioms of the real numbers, and the properties of the whole number exponents. Emphasizes operations with fundamental expressions, solutions of first-degree equations, inequalities and linear systems. Introduces absolute value, radical and quadratic equations, applied problems involving first and second degree equations in one variable, point-slope and slope-intercept equations of lines and their graphs, and the concepts of relations and functions. Not open to students who have passed MATH 330A.

MATH 330A **Elementary Algebra, Part I**

Course Advisory: MATH 320 with a minimum grade of C

Hours: 48-54 lecture

Introductory examination of the structure of the number system. Covers such topics as an introduction to the concept of set operations, the field axioms of the real numbers, order of operations, properties of whole number exponents, variables, variable expressions, operations with monomials, definition of a polynomial, addition and subtraction of polynomials, linear equations, graphing linear equations, linear inequalities, and systems of linear equations, solutions of first degree equations and inequalities in one variable, and applications. A student must take MATH 330B to complete Elementary Algebra. Students who pass MATH 330A are not eligible for MATH 330.

MATH 330B Elementary Algebra, Part II

3.0 Units

3.0 Units

Course Advisory: MATH 330A with a minimum grade of C Hours: 48-54 lecture

Introductory examination of the structure of the number system. Covers such topics as multiplication and division of polynomials, factoring, solving quadratic equations by factoring, operations with rational expressions, simplifying rational expressions, solutions of equations containing rational expressions, roots, radicals and the quadratic formula, and introduction to functions. Successful completion of Math 330B completes Elementary Algebra.

Supervised Tutoring in MATH 0.0 Units **MATH 500**

Corequisite: Concurrent enrollment in a MATH course for which tutoring assistance is requested

Hours: 16-180 lab

Provides students with tutorial support for all mathematics courses. Open entry/open exit, ungraded.

MATH 505 **Supplemental Instruction: MATH** 0.0 Units

Hours: 16-180 lab

An open-entry, open-exit course for students who seek academic support, through supplemental instruction and use of computers, to fill in missing prerequisite knowledge and strengthen skills developed in a referring course or courses as follows: Math 002, 004, 011, 012, 020, 021, 022, 023, 026, 030, 031, 040, 051, 103, 104, 112, 310, 320, 330, 330A, 330B.

MGMT - Management

MKT - Marketing

MGMT 050 Principles of Management

3.0 Units

Transferable to CSU Hours: 48-54 lecture

An introduction and comprehensive survey of the theory and practices relevant to the management principles of: planning, organizing, staffing, directing and controlling. The course explores the nature and role of management/ supervision in a contemporary environment focusing on the strategic planning, decision-making and problem-solving processes that affect organizational effectiveness and efficiency. Includes quantitative and qualitative methodology used in systems and contingency approach to management.

MGMT 055 Management/Leadership Skills 3.0 Units

Transferable to CSU Hours: 48-54 lecture

A comprehensive development, analysis, and application of fundamental skills needed for the successful practice of supervision/leadership. This course addresses the quality principles of leadership applied to work processes, decision making and problem solving, communication, stress and time management, and delegating/facilitating in a team environment. The focus of the course is on jobrelevant skills. Class exercises are employed to teach the various skills.

MGMT 191 Human Relations

3.0 Units

Hours: 48-54 lecture

A comprehensive study and analysis of the concepts and skills associated with human behavior and relationships. The course stresses effective supervision and leadership practices as applied to human interaction

MGMT 193 Human Resource Management 3.0 Units

Hours: 48-54 lecture

Human resource administration of public and private organizations including personnel and administrative practices. The student will examine the evolution of unions including the various labor relations acts, collective bargaining processes, grievance procedures, and arbitration. Supervisor's and the steward's roles are emphasized for effectively maintaining negotiated contracts. The course focuses on actual personnel problems, principles and methods involved in recruitment, selecting and placement of employees with regard to affirmative action programs, training, experience and aptitude

MKT 171 Introduction to Marketing

3.0 Units

Hours: 48-54 lecture

A comprehensive study and analysis of initiating the marketing process (for both profit and non-profit organizations) with special emphasis on understanding the consumer and detailed studies of demographics and target marketing. Includes the role of marketing research, the process of defining a marketing problem and then systematically collecting and analyzing information to recommend actions to improve an organization's marketing activities.

MKT 172 3.0 Units

Marketing Management and Planning

Hours: 48-54 lecture.

Marketing methodology related to all channels of distribution including pricing strategies, new product/ services, and the development and evaluation of breakthrough opportunities. Practical applications in dealing with government regulations and the career field of sales, promotion/advertising.

MKT 173 Principles of Selling

3.0 Units

Hours: 48-54 lecture

The application of traditional selling skills including the approach, demonstrating the product, answering the customer's objections, and closing the sale to the customer's satisfaction.

MKT 174 Retail Merchandising

3.0 Units

Hours: 48-54 lecture

A comprehensive study of the principles and practices of merchandising management of product/services, with emphasis on store location analysis, layout, customer services, buying, sales promotion, consumer credit, and understanding consumer needs and wants. Course includes practical applications related to start-up of a new business and legal constraints of organizing, selling, advertising, consumer relations and personnel practices.

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MT - Maintenance Technology

MT 120 Principles of Analog Electronics

3.0 Units

3.0 Units

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of analog electronics as it applies to mechatronics. Studies include an introduction to DC and AC circuitry as well as advanced electronic components, instruments used in the operation, installation, and troubleshooting of electronic systems, schematic diagrams, and breadboarding. Students will construct several kits as part of the class.

MT 121 Electronics

4.0 Units

Hours: 40-45 lecture, 72-81 lab

Introduces the topics of analog and digital electronics. Studies include an introduction to DC and AC circuitry as well as specific analog and digital electronic components, circuits, and instruments used in the operation, installation, and troubleshooting of electronic systems.

MT 122 Principles of Digital Electronics

3.0 Units

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of digital electronics as it applies to mechatronics. Studies include an introduction to digital numbering systems, digital codes and logic, registers, memories, Boolean Algebra, and integrated circuits as well as advanced topics in computerized control systems. Students will construct several kits as part of the class.

MT 130 3.0 Units

Principles of Mechanical Power Systems

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of mechanical power systems and mechanical power transmission as it applies to mechatronics. Studies include mechanical theory, mechanical power, thermal systems, hand tools, precision measuring instruments, and mathematics applied to mechanical power systems. Includes studies in manufacturing technology using modern manufacturing equipment and software simulators.

MT 132 Principles of Fluid Power Systems 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of hydraulic and pneumatic systems as they apply to mechatronics. Studies include fluid power systems theory, pumps, actuators, accumulators, filters, meters, valves, control devices, and mathematics applied to fluid power systems. Includes studies in manufacturing technology using modern manufacturing equipment and software simulators.

MT 140 Principles of Industrial Electrical Systems

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of DC, single-phase and three-phase AC circuits as they apply to mechatonics. Introduces commercial/industrial electrical installations that meet National Electrical Code requirements. Students will complete labs and wiring projects. Lab, electrical and worksite safety is emphasized.

MT 142 Principles of Electrical Machinery 3.0 Units

Prerequisite**: MT 120 or MT 140

Hours: 32-36 lecture, 48-54 lab

Introduces the topic of electrical machinery as it applies to mechatronics. Studies include direct-current and alternating-current generators, alternators, transmission equipment, and motors. Students will complete labs and electrical machinery projects. Lab, electrical and worksite safety is emphasized.

MT 162 Robotic Manufacturing Systems 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Presentation of physical principles applied to automated manufacturing systems. Students will develop solutions to manufacturing problems using robots, programmable logic controllers (PLC) and computer numerical control (CNC) manufacturing machines. Students will also apply safety-oriented work habits to the completion of laboratory projects while working individually and in groups.

MT 163 3.0 Units

Advanced Robotics Manufacturing Systems

Prerequisite**: MT 162

Hours: 32-36 lecture, 48-54 lab

Advanced programming, vision recognition systems, PLC and HMI integration, and hardware concepts associated with industrial robots. Students in this course will program several robots to work together and with other common automation systems to increase the efficiency and throughput of industrial automation processes. Robot safety procedures including Dual Check Safety (DCS) and other industry standards will be emphasized throughout the course.

MT - Maintenance Technology

3.0 Units

MT 164 Programmable Logic Controllers

Hours: 32-36 lecture, 48-54 lab

Introduces the student to process control via Programmable Logic Controllers (PLC's). Content includes the popular Allen-Bradley PLC systems and the most common command instructions for the RSLogix 5, RSLogix 500, RSLogix 5000, Micrologix 1000, SLC5 and SLC 500 as well as ControlLogix processors. Troubleshooting and electrical safety are emphasized.

MT 165 Advanced Programmable Logic Controllers

Prerequisite**: MT 164

Hours: 32-36 lecture, 48-54 lab

For PLC (Programmable Logic Controllers) programmers, electricians, maintenance and instrumentation technicians, automation students and professionals that have some experience with basic PLC programming. Topics include Tag-Based programming with ControlLogix PLCs along with the RSLogix 5000 programming suite, process control methods, variable frequency drives, SCADA (Supervisory Control and Data Aquisition), and HMI's (Human Machine Interface).

3.0 Units MT 166 CNC Programming

Course Advisory: DRFT 151 Hours: 32-36 lecture, 48-54 lab

Operational and theory of Computer Numerical Control (CNC) machinery, with a focus on skill building, safety practices and maintenance to work as an operator. Includes integration of Computer-Aided Design and Computer-Aided Manufacturing (CAM) as well as manual programming techniques.

MT 167 Advanced CNC Programming

3.0 Units

3.0 Units

Prerequisite**: MT 166 and DRFT 151 Hours: 32-36 lecture, 48-54 lab

Exposes the beginning CNC Machinist to advanced programming techniques for creating basic macro programs, tool and work probing methods, sub programs, sub-routines, 2-axis lathes, 3 + 2 axis mill programming, and 5 axis mill simultaneous programming. Includes preparatory skill and knowledge development in preparation for Haas CNC Operator and/or National Institute for Metalworking Skills (NIMS) certification exams.

MUSC 001 Beginning Theory I

Prerequisite**: MUSC 005 and MUSC 028

Transferable to UC/CSU Hours: 64-72 lecture

A study of diatonic scales and triads, intervals, diatonic chords, basic harmonic progressions and cadences, part writing, rhythm and meter, sight singing, ear training, dictation, history and performance. Short creative assignments are included to provide experience in the application of materials learned in class. It includes analysis and composition and is required for music majors. (C-ID MUS 120; MUS 125)

MUSC 002 Beginning Theory II

4.0 Units

4.0 Units

Prerequisite**: MUSC 001 Course Advisory: MUSC 028 Hours: 64-72 lecture

A continuation of MUSC 001 providing a more in-depth study of scales, triads, diatonic harmonies, part writing, rhythms, sight singing, ear training, dictation, form, history, and performance. It also includes the study of harmonic progression, dominant and non-dominant seventh chords, modulation, secondary function chords, and binary and ternary form. It includes analysis and composition and is required for music majors. (C-ID MUS 130; MUS 135)

MUSC 003 Advanced Theory I

4.0 Units

Prerequisite**: MUSC 002 Transferable to UC/CSU Hours: 64-72 lecture

A continuation of MUSC 002 including the study of 16th-and 18th-century counterpoint, fugue, variation, altered chords, sonata allegro, and rondo forms, and late 19th century writing techniques; practice in rhythmic, melodic, harmonic, and contrapuntal sight singing; ear training, and dictation. This course is required for music majors. (C-ID MUS 140; MUS 145)

MUSC 004 Advanced Theory II

4.0 Units

Prerequisite**: MUSC 003 Course Advisory: MUSC 030 Transferable to UC/CSU Hours: 64-72 lecture

A continuation of MUSC 003 including a more in-depth study of altered chords and late 19th- and 20th-century writing techniques including: 9th, 11th and 13th chords; altered dominants; chromatic harmony; dodecaphony; set theory; aleatory; minimalism; and analysis techniques. It includes practice in rhythmic, melodic, harmonic and contrapuntal sight-singing, ear-training and dictation. This course is required for music majors.

(C-ID MUS 150; MUS 155)

MUSC 005 Music Fundamentals

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU Hours: 48-54 lecture

An Introduction to the elements of music including notation, rhythm and meter, diatonic scales and triads, key signatures, melody, chords and aural skills. Traces the historical and cultural progress of music through the development of musical symbols and their application. No previous musical study is required. (C-ID MUS 110)

MUSC 007 3.0 Units

Jazz and Popular Music in America: Ragtime to Rock

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1 Transferable to UC/CSU

Hours: 48-54 lecture

A survey of jazz and popular music in America, using an historical approach. Includes listening to and analyzing examples of jazz and popular music in relation to the social, technical and historical trends.

MUSC 008 Music Appreciation

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1 Transferable to UC/CSU

Hours: 48-54 lecture

An introductory examination of how composers and songwriters apply the various elements of music to heighten the expressive impact of a composition. Aspects of melody, rhythm, harmony, tone, and structure are studied through focused listening of works from the Renaissance to contemporary styles of avant-garde and popular music. This course requires no previous musical study. (C-ID MUS 100)

MUSC 009 Wind Ensemble

1.0 Unit

Prerequisite**: Ability to play a wind ensemble instrument. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the wind ensemble

General Education: SCC: Area C Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of wind ensemble repertoire. Public performances and/or field trips are required.

Repeatable 3 times. (C-ID MUS 180).

MUSC 010 Concert Band

1.0 Unit **MUSC 015** 1.0 Unit

Prerequisite **: Ability to play a concert band instrument. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the concert band

General Education: SCC: Area C Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of concert band literature. Public performances and/or field trips are required.

Repeatable 3 times. (C-ID MUS 180)

MUSC 011 Symphonic Band 1.0 Unit

Transferable to UC/CSU General Education: SCC: Area C

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of various styles of symphonic band literature. Symphonic band literature, rehearsal technique, and performance practices are examined. Public performances and/or field trips are required. Repeatable 3 times. (C-ID MUS 180)

MUSC 013 Multicultural Music in America 3.0 Units

General Education: SCC: Area C, E; IGETC: Area 3A, SCC Cross-Cultural; CSU: Area C1; SCC Cross-Cultural Transferable to UC/CSU

Hours: 48-54 lecture

A survey of multicultural music in America; listening to and analyzing examples of multicultural music in relation to social, technical, and historical trends, including the role of music in influencing American attitudes toward ethnic identity, stereotyping, and racial prejudice. This course also examines the uniquely American style resulting from the interaction among musicians of many cultural, racial, national, and ethnic backgrounds.

MUSC 014 Jazz Ensemble 1.0 Unit

Prerequisite **: Ability to play at least one instrument commonly used in jazz ensemble.

General Education: SCC: Area C Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement.

The study and performance of jazz ensemble repertoire encompassing a wide variety of music in the jazz style. Public performances and field trips are required. Repeatable 3 times. (C-ID MUS 180)

Prerequisite **: Ability to perform on one or more instruments in the stage band. Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the stage band.

General Education: SCC: Area C Transferable to UC/CSU

Hours: 48-54 lab. 16-18 lab by arrangement

Stage Band

An instrumental ensemble class analyzing and performing stage band music. Public performance required.

Repeatable 3 times. (C-ID MUS 180)

MUSC 016 Symphony Orchestra

1.0 Unit

Prerequisite **: Ability to play an orchestral instrument Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the symphony orchestra. Transferable to UC/CSU

Hours: 8-9 lecture, 16-18 lab, 8-9 lab by arrangement

The study and performance of orchestral repertoire. A wide variety of musical literature is covered. Public performances and/or field trips are required. Repeatable 3 times. This is an Open Entry/Open Exit course. (C-ID MUS 180)

MUSC 017 Chamber Orchestra

1.0 Unit

Prerequisite **: Ability to play an orchestral instrument.

Students must demonstrate an adequate level of proficiency on an instrument to participate and perform with the chamber orchestra.

General Education: SCC: Area C; IGETC: Area 3A

Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of chamber orchestra repertoire. Public performances and/or field trips are required. Repeatable 3 times. (C-ID MUS 180)

2.0 Units MUSC 018 **Beginning Steel Drum Band**

Transferable to UC/CSU

Hours: 16-18 lecture, 32-36 lab, 16-18 lab by arrangement An ensemble class with emphasis on music from the Caribbean. Regular rehearsal and performances using steel drums. This class also presents a comparison of Caribbean musical performance styles. Public performances and/or field trips required. Repeatable 3 times.

2.0 Units MUSC 019 Instrumental Ensemble

Course Advisory: Ability to read music and play an instrument Transferable to UC/CSU

Hours: 32-36 lecture, 16-18 lab

The study and performance of representative music literature for strings, woodwinds, brass and small mixed group ensembles. Includes improvisation, reading, ensemble practice and outside performance when possible. Repeatable 3 times.

MUSC 020 Choir

1.0 Unit MUSC 025 **Chamber Choir**

1.0 Unit

Prerequisite **: Ability to sing in a choir. Students must demonstrate an adequate level or proficiency to participate and perform with

General Education: SCC: Area C Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

A performing mixed choir (S.A.T.B.) that studies and performs a variety of a cappella and accompanied choral literature. This course teaches fundamentals of reading choral music, using examples from choral literature. Attendance at and involvement in public performances required. Field trips may be required. Repeatable 3 times. (C-ID MUS 180)

MUSC 021 Chorus

1.0 Unit

Prerequisite **: Students must demonstrate an adequate level of vocal proficiency to participate in and perform with the Chorus. Audition required.

General Education: SCC: Area C Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

A performing mixed choir (S.A.T.B.) that sings a variety of music, both historical and contemporary. This course teaches fundamentals of reading choral music, using examples from choral literature. Repeatable 3 times. (C-ID MUS 180)

MUSC 023 Handbell Ensemble

2.0 Units

Course Advisory: Previous musical experience is helpful

Transferable to UC/CSU

Hours: 16-18 lecture, 32-36 lab, 16-18 lab by arrangement Presents the study and performance of music for handbells. Music reading skills, techniques of handbell ringing, and musicianship skills are taught through lecture, rehearsal and performance of various styles of music arranged for handbells. Public performance is required. Repeatable 3 times.

MUSC 024 Master Works Chorale

1.0 Unit

Prerequisite **: Audition to assess ability of music reading and vocal skills.

Students must demonstrate an adequate level of vocal proficiency to participate and perform with the Master Works Chorale. Audition reauired

General Education: SCC: Area C Transferable to UC/CSU

Hours: 48-54 lab, 16-18 by arrangement

A performing mixed choir (S.A.T.B.) that sings a variety of music, both historical and contemporary, with an emphasis on large choral forms such as oratorios and cantatas, accompanied by instruments. Designed for singers with previous choral experience. Public performance required. Repeatable 3 times. (C-ID MUS 180)

Prerequisite **: Audition required to assess ability of music reading and vocal skills. Students must demonstrate an adequate level of vocal proficiency to participate and perform with the Chamber Choir.

General Education: SCC: Area C Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

Advanced study and performance of choral works for the small ensemble. Public performance required. Highly recommended for music majors, especially voice majors. Participation in public performances required. Field trips are required. Repeatable 3 times. (C-ID MUS 180)

MUSC 026 Vocal Jazz Ensemble

1.0 Unit

Prerequisite **: Ability to sing in a vocal jazz ensemble. Students must demonstrate an adequate level of proficiency singing in a cappella choral ensembles, reading music and a good concept of the vocal jazz ensemble idiom

General Education: SCC: Area C Transferable to UC/CSU

Hours: 48-54 lab, 16-18 lab by arrangement

The study and performance of choral works in the jazz idiom, including development of reading and improvisation skills. Vocalists work with a jazz rhythm section and instrumentalists. Participation in public performance required. Repeatable 3 times. (C-ID MUS 180)

Elementary Piano Part I MUSC 027

1.0 Unit

Transferable to UC/CSU Hours: 16-18 lecture, 16-18 lab

An introduction to beginning piano techniques, including hand position, posture, fingering, technical exercises, note reading, sight reading, and performance of piano literature. Numerous examples are assigned to demonstrate the essentials of reading and counting skills, coupled with the presentation of major and minor scales, chords, and other fundamentals of piano playing.

MUSC 028 Elementary Piano Part II

1.0 Unit

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

A continuation of MUSC 027 expanding on the elementary piano techniques by exploring a progressive series of pieces and exercises which develop the reading skills and other concepts used in performance practice. Stresses use of all major and minor scales, arpeggios in exercise form, sight reading, chromatic fingering, and performance.

MUSC 029 Intermediate Piano Part I

Prerequisite **: MUSC 028 with a minimum grade of D Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Presents the intermediate level of piano technique and literature. Emphasis is on interpretation, fingering, phrasing, technical studies and exercises including performance. Sight reading and continued development through the mastery of progressive pieces enables the pianist to reach a greater overall skill level and confidence during performance.

MUSC 030 Intermediate Piano Part II

1.0 Unit

1.0 Unit

Prerequisite **: MUSC 029 with a minimum grade of D Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Presents more difficult techniques for the intermediate pianist. Emphasizes the culmination of reading skills, motor coordination, knowledge of harmony, exercises and fingering, overall interpretation, dynamics, attention to form, advanced technical problems concerning performance of the literature. Recommended for students seeking a working knowledge in piano, comparable to second year level in the literature.

MUSC 031 Class Lessons in Woodwinds

1.0 Unit

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Class instruction in woodwind instruments. Music majors are required to take one unit of instruction in their major instrument for graduation. Four units are recommended for transfer majors. This class requires outside practice.

MUSC 032 Class Lessons in Brass

1.0 Unit

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Class instruction in brass instruments. Music majors are required to take one unit of instruction in their major instrument for graduation. Four units are recommended for transfer majors. This class requires outside practice.

MUSC 033 Class Lessons in Strings

1.0 Unit

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Class instruction in strings. Transfer students are required to study four semesters in their major instrument.

MUSC 034 Class Lessons in Percussion

1.5 Units

Transferable to UC/CSU

Hours: 16-18 lecture, 32-36 lab

Class instruction in percussion instruments. Music majors are required to take one unit of instruction in their major instrument. Transfer majors are required to study four semesters in their major instrument. This class requires outside practice.

MUSC 035A **Beginning Voice I**

1.0 Unit

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Group work on the fundamental techniques of singing, including literature of traditional/folk, art, musical theater and popular classics. Includes analysis of individual problems and the opportunity for solo performance. Transfer voice majors should study voice each semester.

MUSC 035B Beginning Voice II

1.0 Unit

Prerequisite **: MUSC 035A with a minimum grade of D Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

A continuation of MUSC 035A. Group work on the fundamental techniques of singing, including study of standard vocal literature for solo performance, with increased emphasis in developing vocal and performance skills.

MUSC 036A Intermediate Voice I

1.0 Unit

Prerequisite **: MUSC 035B with a minimum grade of D Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

A continuation of MUSC 035B with emphasis on the development of vocal technique and interpretation. Repertoire includes classical compositions from the English, Italian, and German languages. Analysis of individual vocal problems and performance skills is included.

MUSC 036B Intermediate Voice II

1.0 Unit

Prerequisite **: MUSC 036A with a minimum grade of D

Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

A continuation of MUSC 036A with emphasis on vocal technique and interpretation. Solo repertoire appropriate to intermediate level includes standard voice literature. Analysis of individual vocal problems and performance skills is included.

MUSC 038 Class Lessons in Beginning Guitar 1.5 Units

Transferable to UC/CSU

Hours: 16-18 lecture, 32-36 lab

Presents the principles and techniques of fundamental guitar performance. The course stresses first position techniques, note reading, scales, fingerboard knowledge, chord positions, picking and strum techniques, and performance of selected musical literature appropriate to the beginning level. NOTE: Combined enrollments in MUSC 038, 039 and 062 may not exceed 4 units.

MUSC 039 1.5 Units

Class Lessons in Intermediate Guitar

Prerequisite**: MUSC 038 or equivalent as assessed by instructor and ability to read simple guitar music

Transferable to UC/CSU Hours: 16-18 lecture, 32-36 lab

Presents the intermediate instruction level in guitar performance techniques and musical skill. The course covers 3rd and 5th positions, solo performance, musical notation exercise and application, musical interpretation and style, and intermediate literature. NOTE: Combined enrollments in MUSC 038, 039 and 062 may not exceed 4 units.

MUSC 040A Applied Music I

0.5 Unit

Corequisite: Student must be concurrently enrolled in a large performance ensemble (MUSC 009, 010, 011, 014, 015, 016, 017, 020, 021, 024 or 025) AND in a music theory class (MUSC 001, 002, 003 or 004)

Prerequisite**: Audition: Student must meet the performance standards of an entering first semester college music major as determined by an entrance audition

Hours: 8-9 lab, 16-18 lab by arrangement Transferable to CSU

The first course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester; eight hours per semester of solo performance, master classes, and a final juried performance; and one hour monitored practice time per week. This course is required for all traditional performance majors. (C-ID MUS 160)

MUSC 040B Applied Music II

0.5 Unit

Corequisite: Student must be enrolled in a large performance ensemble (MUSC 009, 010, 014, 015, 016, 017, 020, 021, 024, 025, or 026) AND in a music theory class (MUSC 001, 002, 003, 004)

Prerequisite**: MUSC 040A; Audition: Students must meet the performance standards of an entering second-semester college traditional music major as determined by an entrance audition Transferable to CSU

Hours: 8-9 lab, 16-18 lab by arrangement

The second course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester; eight hours per semester of solo performance, masterclasses, and a final juried performance; and one hour monitored practice time per week. This course is required for all traditional performance and jazz music majors. (C-ID MUS 160)

MUSC 040C Applied Music III

0.5 Unit

Corequisite: Student must be enrolled in a large performance ensemble (MUSC 009, 010, 014, 015, 016, 017, 018, 020, 021, 024, 025, or 026) AND in a music theory class (MUSC 001, 002, 003 or 004)

Prerequisite**: MUSC 040B; Audition: Student must meet the performance standards of an entering third-semester college traditional music major as determined by an entrance audition Transferable to CSU

Hours: 8-9 lab, 16-18 lab by arrangement

The third course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester; eight hours per semester of solo performance, masterclasses, and a final juried performance; and one hour monitored practice time per week. This course is required for all traditional performance and jazz music majors. (C-ID MUS 160)

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor
**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

MUSC 040D **Applied Music IV**

0.5 Unit MUSC 042A Jazz and Pop Piano 1.0 Unit

Corequisite: Student must be enrolled in a large performance ensemble (MUSC 009, 010, 014, 015, 016, 017, 018, 020, 021, 024, 025, or 026) AND in a music theory class (MUSC 001, 002, 003 or 004) Prerequisite **: MUSC 040C; Audition: Student must meet the performance standards of an entering third-semester college traditional music major as determined by an entrance audition Hours: 8-9 lab, 16-18 lab by arrangement

This final course in a four-part series which focuses on the development of individual performance skills and solo and ensemble repertoire. It includes one-on-one or small group instrumental, composition, or vocal instruction eight hours per semester; eight hours per semester of solo performance, masterclasses, and a final juried performance; and one hour monitored practice time per week. This course is required for all traditional performance and jazz music majors. (C-ID MUS 160)

MUSC 041A Music Majors Piano

1.0 Unit

Transferable to UC/CSU Hours: 16-18 lecture, 16-18 lab

Instruction, practice and application of the techniques of piano performance. Emphasis will be placed on a variety of keyboard skills including harmonic progressions, scales, fingerings, drills and exercises, sight reading, and keyboard ear-training. The course will present musical analysis, performance strategies, suggested rehearsal techniques, independent coordination, and memorization. The course is specially designed to accompany the music major and, therefore, is very specific in harmonic understanding, theory, melodic development and usage, and piano practice.

MUSC 041B **Music Majors Piano**

1.0 Unit

Prerequisite **: MUSC 041A with a minimum grade of D

Hours: 16-18 lecture, 16-18 lab

Instruction, practice and application of the techniques of piano performance at the intermediate level designed for music majors. Emphasis will be placed on continuation of keyboard skills including simple and complex modulation, harmonic progressions using seventh chords and larger sonorities, all major and minor scales plus other forms, exercises and drills, sight reading, rehearsal techniques, accompanying skills, arrangement and advanced eartraining. The course specifically relates to advanced theoretical concepts realized at the keyboard with a continued attention to performance and the use of the piano as a teaching tool.

Prerequisite **: A minimum grade of D in both MUSC 027 and MUSC 028, or equivalent as determined by instructor Transferable to UC/CSU

Hours: 16-18 lecture, 16-18 lab

Instruction, practice, performance, and application of the techniques of Jazz and Pop piano performance. Emphasis will be placed on establishing the foundations for an improvised approach as well as a review of available literature. The course will focus on the concepts of jazz and popular styles involving the realization of lead sheets, chord voicing, applied scale theory, rhythmic structure, arrangement techniques, improvisation, and accuracy in the development of all styles considered.

MUSC 042B Jazz and Pop Piano

1.0 Unit

Prerequisite **: A minimum grade of D in both MUSC 027 and MUSC 028, or equivalent as determined by instructor

Course Advisory: MUSC 042A Transferable to UC/CSU Hours: 16-18 lecture, 16-18 lab

Instruction, practice, performance, and application of the techniques and principles of intermediate jazz and popular piano styles and skills. Emphasis will be directed to continuing the presentation made in 042A. Focus will be centered around arranging, improvisations, voicings, dialogue, hand formats, performance of literature, written projects and a further introduction to styles. The realization of lead sheets, sight reading, ear training, transcriptions of solos, fingerings, scale theory, exercises, and performance strategies will all be discussed.

MUSC 045 History of Rap and Hip-Hop

3.0 Units

General Education: CSU: Area C1 Transferable to UC/CSU Hours: 48-54 lecture

An in-depth exploration of the history of rap and hiphop through its origins in African and Black-American oral traditions to its current standing as the preeminent popular musical genre in America. Students will be introduced to a myriad of artists, performers, and figures that helped shape this ever-expanding genre. Additionally, students will explore the racial, social, and cultural implications and controversies that have been prevalent throughout the genre's history. Finally, students will be introduced to an extensive list of musical examples that illustrate this history.

C-ID Designation may change periodically visit c-id.net/courses/search for current designation or consult with your counselor **All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

MUSC 049 Music Honors

1.0 to 3.0 Units **MUSC 055**

Prerequisite **: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

An independent study course in a selected musical area for sophomore students. The student works by arrangement with the instructor on an outlined program of study. A contract between student and instructor which details the specific area of interest including goals and schedule for project completion is required. Students may take this course up to the maximum number of units over multiple semesters.

MUSC 051 Jazz and Popular Solo Voice

1.0 Unit

Transferable to CSU

Hours: 16-18 lecture, 16-18 lab

The study and performance of songs in the popular and jazz idiom. Areas covered will include musical phrasing, emotional expression, popular vocal styling, stage presence and the use of sound reinforcement systems. This course requires public performance and/or field trips.

MUSC 052 Sound Recording

2.0 Units

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Designed for musical performers and students interested in recording specifically. Development of recorded performances in the studio environment. Emphasis on acoustics, vocal and instrumental recording requirements, control board management, microphone techniques, organization and supervision of the recording session, mixing and mixdown. Particular attention is given to the hands-on experience in recording engineering and the overall recording process, including production, musical arrangement, mixdown, and studio demeanor.

MUSC 053 Advanced Sound Recording

2.0 Units

Prerequisite **: MUSC 052 with a minimum grade of D

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Advanced recording techniques with particular attention given to hands-on techniques.

3.0 Units

Course Advisory: Knowledge of music fundamentals and basic instrumental skills.

Introduction to Jazz Improvisation

Transferable to CSU

Hours: 32-36 lecture, 16-18 lab, 16-18 lab by arrangement. Techniques and literature of improvisation including application of scales, modes, harmonic progressions, solo shape, form, and dynamic, rhythmic, and melodic development and interpretation of concepts and materials in the jazz style. Provides development and understanding of these techniques in the occupational areas of music

Jazz Improvisational Ensemble 3.0 Units MUSC 056

through the concepts and performance of improvisation.

Course Advisory: MUSC 055

Transferable to CSU

Hours: 32-36 lecture, 16-18 lab, 16-18 lab by arrangement

Presents the principles and techniques of improvisational materials, combo performance, individual solo skills, advanced playing concepts, group dynamics, and increased performance ability. The class will perform a wide variety of arrangements and the overall performance standards are directed to feature individual soloists. Provides the occupational musician with an opportunity to develop confidence and advanced skills from performance in this ensemble. Repeatable 3 times.

MUSC 060 Sound Recording Lab 1.0 to 4.0 Units

Corequisite: MUSC 052, MUSC 061, MUSC 062, MUSC 063, or

MUSC 066A-G Transferable to CSU Hours: 48-216 lab

Introduces or further develops recording skills through practical application of techniques learned in related courses. The course is designed to allow recording students additional time outside of other classes to work on sound recording projects. Course may be taken up to the maximum number of units over multiple semesters.

2.0 Units **MUSC 061**

MIDI and Computer Music Sequencing And Scoring

Course Advisory: MUSC 027 with a minimum grade of C

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

An introduction to MIDI (Musical Instrument Digital Interface) and the hardware and software components of music sequencing and scoring. The course content will include hands-on familiarization with the Macintosh computer, practical use of sequencing and scoring software, and an understanding of MIDI terminology.

1.5 Units

MUSC 066A

Advanced Sound Recording - Signal Processing

Prerequisite**: MUSC 052 Transferable to CSU Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on treatment of recorded audio files (signal processing), including applying reverberation, compression, equalization. This course is designed for students particularly interested in mixing audio.

MUSC 066B

1.5 Units

Advanced Sound Recording - Microphone Technique

Prerequisite**: MUSC 052
Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on understanding microphone construction, operating principles and uses. This course is designed for students particularly interested in microphone design and placement technique.

MUSC 066C

1.5 Units

Advanced Sound Recording - Mixing and Mastering

Prerequisite**: MUSC 052 Transferable to CSU Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on mixing and mastering recorded music. This course is designed for students particularly interested in balancing audio that has been recorded and finalizing it in preparation for duplication.

MUSC 066D

1.5 Units

Advanced Sound Recording - Analog Recording

Prerequisite**: MUSC 052 Transferable to CSU Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on recording music with analog equipment. This course is designed for students particularly interested in learning to record without computers.

MUSC 066E

1.5 Units

Advanced Sound Recording - Home Studio Recording

Prerequisite**: MUSC 052 Transferable to CSU Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on learning how to adapt an existing home to accommodate a small recording studio. This course is designed for students particularly interested recording in a home studio.

MUSC 066F

1.5 Units

Advanced Sound Recording - Studio Design and Equipment

Prerequisite**: MUSC 052 Transferable to CSU Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on learning how to physically design and equip any recording studio. This course is designed for students particularly interested in designing, building and equipping a recording studio. Off-campus *Field trip may be required*.

MUSC 066G Sound Recording Project

1.5 Units

Prerequisite**: MUSC 052 Transferable to CSU Hours: 8-9 lecture, 48-54 lab

One course in a series of Advanced Sound Recording electives building upon MUSC 052 skills, focusing on practical application of recording skills. This course is designed for students particularly interested in applying recording skills in real-world situations. Required attendance at up to three recording sessions which take place outside of normal classroom hours.

MUSC 067A Introduction to Pro Tools

1.5 Units

Course Advisory: MUSC 052 Hours: 8-9 lecture, 48-54 lab

Covers basic Pro Tools principles; providing everything students need to complete a Pro Tools project - from initial set up to final mixdown. This course is an introduction to AVID's Pro Tools digital audio workstation software application. It includes how to record, edit, and mix music and Musical Instrument Digital Interface (MIDI) tracks within the Pro Tools application. This course is the first in a series of four courses leading to certification as a Pro Tools Operator.

MUSC 067B Pro Tools Production

1.5 Units

MUSC 073 Artist Management Transferable to CSU

The definitions, duties, and agreements of artist

Music Promotion

management. Topics include the functions of a personal

and clients, record company negotiations, and selecting

other team players. The course also analyzes the personal

manager agreement and how to organize an artist's tour.

manager, guidelines to career planning, choosing managers

3.0 Units

Prerequisite **: MUSC 067A Hours: 8-9 lecture, 48-54 lab

Provides a more detailed look at the Pro Tools system above and beyond the knowledge gained in Introduction to Pro Tools. It covers all the key concepts and skills needed to operate a Pro Tools system at the user level. This is an intermediate course in Digidesign's Pro Tools digital audio workstation hardware and software application. Concepts and skills needed to operate large sessions in a project studio environment are covered. It includes managing large track counts, multiple channels of simultaneous inputs and outputs, and the use of specialized plug-ins for specific music and post-production tasks. This course is the second in a series of four courses leading to certification as a Pro Tools Operator.

3.0 Units

Transferable to CSU Hours: 48-54 lecture

MUSC 074

Hours: 48-54 lecture

The process of music promotion. Topics include definitions of promotion, developing media/industry fan lists, and assembling a promotion packet. The course also discusses current internet strategies and new technologies developed for promotion. In addition, a campaign for album release and distribution is discussed and planned. Field trips may be required.

Business of Music I MUSC 071

Transferable to CSU Hours: 48-54 lecture

Covers the processes of the music industry including record contracts as well as the responsibilities of record producers, agents, managers, and performing artists.

MUSC 072 Business of Music II

3.0 Units

3.0 Units

Transferable to CSU Hours: 48-54 lecture

One course in a series of Music Industry core courses building upon MUSC 071 skills; focusing on the duties of attorneys, publishers, and radio stations regarding musical and financial matters. The course defines and analyzes publishing agreements, merchandising contracts, trademark and servicemark points, as well as radio and record-industry relations and sales and distribution.

NURS 052 Pharmacology for Nursing

3.0 Units

Prerequisite**: Admission to the Registered Nursing Program

NURS 071A Foundations of Nursing I

Prerequisite**: BIO 005

Course Advisory: Basic computer navigation skills and frequent internet access is required Corequisite: NURS 071S

Transferable to CSU

Transferable to CSU Hours: 48-54 lecture

Nursing or Pre-nursing Students. Designed to focus on nursing pharmacology by presenting a firm theoretical foundation. The course presents general principles, theories, and facts about medicinal agents. General characteristics of major classifications of medications are discussed. Specific information regarding action, dosage, side effects, adverse reactions and contraindications of selected medications within each classification is addressed. Practical information is presented on how the nursing process is integrated with pharmacology. Specific drug information is discussed in relation to assessment, client monitoring, interventions, client education, and evaluation of safe and effective drug therapy.

NURS 065 Role Transition in Practice

2.5 Units

Corequisite: NURS 064
Prerequisite**: NURS 063

Course Advisory: Basic computer navigation skills and frequent internet

access is required. Transferable to CSU Hours: 120-135 lab

The final course in the nursing sequence. The focus of this course is on nursing care and first level management / leadership skills in caring for groups of hospitalized patients. Emphasis is placed on team management skills in acute care settings. The registered nurse preceptor directly supervises the student under the guidance of the nursing faculty liaison. Professional development skills, as well as current issues in nursing, are applied. This course focuses on managing groups of patients with respect to the individual's cultural / religious beliefs related to wellness, illness and health care practice. Clinical application of both previously learned theory and skills are applied in various healthcare agencies.

Transferable to CSU Hours: 64-72 lecture, 96-108 lab

Introduction to the foundational concepts that guide nursing practice for safe, humanistic, patient-centered care to a diverse patient population across the lifespan. Additional concepts on which the curriculum is built including legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice are also introduced. Concepts related to the individual patient that are used throughout the nursing program are defined with select concepts as the focus for patient care. Application of knowledge and skills occurs in a variety of clinical settings providing care to stable adult patients with common health alterations. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms, and nursing equipment.

NURS 071B Foundations of Nursing II

6.0 Units

6.0 Units

Prerequisite**: NURS 071A Corequisite: NURS 071S Transferable to CSU

Hours: 56-63 lecture, 120-135 lab

Introduction to the foundational concepts that guide nursing practice for safe, humanistic, patient-centered care to a diverse patient population. Additional concepts on which the curriculum is built including legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice are also introduced. Concepts related to the individual patient that are used throughout the nursing program are defined with select concepts as the focus for patient care. Application of knowledge and skills occurs in a variety of clinical settings providing care to stable adult patients with common health alterations. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/ supplies, uniforms and nursing equipment.

NURS 071S Nursing Simulation and Skills Lab I 2.0 Units

Prerequisite **: Admission to Registered Nursing Program

Corequisite: NURS 071A and NURS 071B

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Presents the basic skills and simulations used in nursing practice for safe, humanistic, patient-centered care to a diverse patient population. The student will learn and practice these psychomotor skills in preparation for application in the clinical setting. As the skills are learned, consideration is given to the legal and ethical responsibilities of the nurse, caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/ supplies, uniforms and nursing equipment.

NURS 072A Medical/Surgical I and Geriatrics 5.0 Units

Prerequisite**: NURS 071A, NURS 071B and a grade of Pass in NURS 071S

Corequisite: NURS 072S Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the foundational concepts of nursing practice introduced in NURS 071A & 071B. This course applies safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute conditions of patients on the medical/surgical units and the elderly. Concepts related to the individual patient introduced in NURS 071A and 071B are applied with additional select concepts that focus on care of patients on the medical/ surgical units and the elderly. Application of knowledge and skills occurs in a variety of clinical settings providing care to the elderly and adults experiencing acute conditions requiring medical/surgical interventions. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 072B Maternal-Newborn Nursing

5.0 Units

Prerequisite **: NURS 071B and NURS 071S

Corequisite: NURS 072S. Applies the foundational concepts of nursing practice introduced in NURS 071A & 071B

Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute conditions of patients on the Maternal/Child Units. Concepts related to the individual patient introduced in NURS 071A and 071B are applied with additional select concepts that focus on care of patients on the maternal/child. Application of knowledge and skills occurs in a variety of clinical settings providing care to the childbearing family experiencing conditions requiring interventions. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 072S 2.0 Units

Nursing Simulation and Skills Lab II

Prerequisite**: NURS 071B and a grade of Pass in NURS 071S

Corequisite: NURS 071A and NURS 071B

Transferable to CSU

Hours: 16-18 lecture, 48-54 lab

Building on the content presented in Nursing Skills Lab I with a focus on developmentally and culturally appropriate therapeutic interventions in the care of the childbearing family, patients requiring medical/surgical interventions, and the elderly. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 073 2.0 Units NURS 073B 5.0 Units

Issues and Leadership in Health Care Today

Prerequisite**: NURS 072A, NURS 072B; and a grade of Pass in

NURS 072S

Corequisite: NURS 073S Transferable to CSU Hours: 32-36 lecture

Facilitates the nursing student's entry into the profession of nursing. Topics include current issues, trends and leadership theories in the registered nurse's scope of practice in an ever-changing health care delivery system. Included is the delineation of the major functions of professional nursing organizations, accountability in nursing practice (quality improvement and risk management), identification of socio-political factors as well as leadership and management issues influencing professional nursing practice and their nursing implications. Legal and ethical concepts and responsibilities related to registered nursing practice are further considered. This is a non-clinical course. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents.

NURS 073A Medical/Surgical II

5.0 Units

Prerequisite**: NURS 072A and NURS 072B; and a grade of Pass in NURS 072S

Corequisite: NURS 073S Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the concepts of nursing practice presented in NURS 071 and 072 and focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and acute (stable and unstable) and chronic conditions of patients requiring medical/surgical interventions. Application of knowledge and skills occurs in a variety of clinical settings with an emphasis on expanding the student's ability to focus on the legal and ethical responsibilities of the nurse, caring, critical thinking/clinical reasoning, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

Psychiatric and Mental Health Nursing

Prerequisite **: NURS 072A and NURS 072B

Corequisite: NURS 073S Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the concepts of nursing practice presented in NURS 071 & 072 A & B and focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on acute and chronic conditions of patients requiring mental health interventions. The focus of this course is to provide students opportunities to evaluate and address the biopsychosocial needs of the psychiatric patient. Application of knowledge and skills occurs in a variety of clinical settings with an emphasis on expanding the student's ability to focus on the legal and ethical responsibilities of the nurse, caring, critical thinking/clinical reasoning, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/ supplies, uniforms and nursing equipment.

NURS 073S 1.0 Unit

Nursing Simulation and Skills Lab III

Prerequisite**: NURS 072A and NURS 072B; and a grade of Pass in NURS 072S

Corequisite: NURS 073A and NURS 073B

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Builds on the content presented in NURS 071S and 072S with a focus on developmentally and culturally appropriate therapeutic interventions in the care of patients with acute (stable and unstable) and chronic medical and psychiatric conditions requiring medical/surgical and mental health interventions. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet Access required. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 074A Medical/Surgical III

6.0 Units NURS 074S

1.0 Unit

Prerequisite**: NURS 073A and NURS 073B; and a grade of Pass in

NURS 073S Corequisite: NURS 074S Transferable to CSU

Hours: 48-54 lecture, 360-405 lab

Applies the concepts of nursing practice presented in NURS 071, 072 & 073 A& B then focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness and patients with acute, complex conditions requiring medical/surgical interventions. The focus of NURS 074A is to provide students opportunities to integrate all program concepts to the care of adult patients with complex healthcare needs. Application of knowledge and skills occurs in a variety of clinical settings. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 074B Pediatric Nursing

5.0 Units

Prerequisite**: NURS 073A and NURS 073B; and a grade of Pass in NURS 073S

Corequisite: NURS 074S Transferable to CSU

Hours: 40-45 lecture, 120-135 lab

Applies the concepts of nursing practice presented in NURS 071, 072, and 073 A&B then focuses on additional concepts for safe, humanistic, patient-centered care to a diverse patient population focusing on wellness for a pediatric patient. This course also applies nursing concepts to the care of children. The focus is to provide students opportunities to integrate all program concepts to the care of pediatric patients. Application of knowledge and skills occurs in a variety of clinical settings. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

Nursing Simulation and Skills Lab IV

Prerequisite**: NURS 073A and NURS 073B; and a grade of Pass in

NURS 073S

Corequistie: NURS 074A and NURS 074B

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Builds on the content presented in NURS 071S, 072S & 073S with a focus on developmentally and culturally appropriate therapeutic interventions in the care of patients with acute and chronic complex conditions requiring medical/surgical interventions and the care of children. Includes application of the concepts of caring, critical thinking, the nursing process, quality improvement, communication, teamwork/collaboration, and evidencebased nursing practice. Application of knowledge and skills occurs in the nursing skills lab and the simulation lab. Internet and PC computer access with chrome web browser required in order to utilizes online NCLEX test preparation software, skills videos and to complete course materials utilizing word, excel and PDF documents. Purchase of Skill lab kits/supplies, uniforms and nursing equipment.

NURS 103 Certified Nursing Assistant

6.5 Units

Prerequisite**: Applicants must be at least 16 years old Hours: 64-72 lecture, 128-144 lab

Basic computer navigation skills and frequent internet access is required. Prepares the student to function in the role of Certified Nursing Assistant in the acute care, long-term care, and home health settings. Students must apply to the CNA program through Solano Community College's Office of Admissions and Records, as well as attend a mandatory information session prior to the beginning of class.

NURS 104 Home Health Aide

2.0 Units

Prerequisite**: NURS 103 (may enroll concurrently) Hours: 24-27 lecture, 24-27 lab.

An extension of the nursing assistant training. It is a didactic model that addresses the transition of skills from an institutional environment to the home setting. The course consists of nine modules, 20 hours classroom instruction including use of state curriculum, lectures, videos and discussion.

NURS 105 Acute Care Nursing Assistant

2.0 Units

NURS 111 Medical Terminology

Hours: 48-54 lecture

3.0 Units

Prerequisite**: NURS 103

Hours: 24-27 lecture, 30-33.75 lab

A focus on patients with acute illness or short-term illness or injury. This course prepares current CNAs to work in an emergency room or other short-term care facility, assisting registered nurses (RNs) and other health care personnel. Students refine skills learned in the general or long-term care CNA courses, such as measuring vital signs. Certified nursing assistants in this class become skilled at observing patients for discomfort, pain and learning how to apply basic knowledge and skills to delivery quality patient care. The CNA acute care curriculum also covers anatomy and physiology, infection control and safety procedures in an acute care setting. This course is typically taken by current CNAs. It is commonly referred to as a CNA level 2 course. The nurse assistant is an important member of the health care team. The nurse assistant, under the direct supervision of licensed nursing personnel, provides direct care to the resident; promotes comfort measures, and collects, records and reports data.

Basic computer navigation skills and frequent internet access is required. A study of the language of medicine. The student will develop a working knowledge of terms, word roots, and abbreviations related to structure and functioning of the systems of the body as they pertain to medical practice.

NUTR - **Nutrition**

NUTR 010 Nutrition

General Education: SCC: Area A; CSU: Area E

Transferable to UC/CSU Hours: 48-54 lecture

Study of the scientific concepts of human nutrition. Essential nutrients, functions, chemical compositions of foods and their utilization in the body will be covered. The course will emphasize topics such as weight loss, sports nutrition, food safety, the diet-disease relationship, global nutrition, and analysis of special nutritional requirements during the lifecycle among others. Students utilize computer technology and nutritional assessment methods to evaluate personal dietary habits. (C-ID NUTR 110)

NUTR 012

0.5 to 2.0 Units

Evaluating Current Topics in Nutrition

Transferable to CSU Hours: 8-36 lecture

Methods of evaluating current nutritional topics, determining reliable and unreliable sources of information and judging validity of experimental design. This course provides opportunities to study current, controversial topics in nutrition. Course topics include, but are not limited to, vitamin and mineral supplements, weight loss fads, phytochemicals and foods as medicine.

3.0 Units

NUTR 054 Child Health, Safety, and Nutrition 3.0 Units

Course Advisory: CDFS 038; CDFS 062 General Education: CSU: Area E

Transferable to CSU Hours: 48-54 lecture

Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development for all children. This is the same course as CDFS 054.

OCED - Occupational Education

OCED 070 Occupational Soft Skills

1.5 Units OCED 090

1.0 to 16.0 Units

Transferable to CSU Hours: 24-27 lecture

Covers the critical tools to help occupational students develop the employability or soft skills needed for a smooth transition to the work force based on the Secretary's Commission on Achieving Necessary Skills (SCANS). Topics include practical elements required to meet employer expectations, create cooperative coworker interactions and development of positive personal characteristics. This is not a work experience course.

OCED 071 1.5 Units

Occupational Portfolio Development

Transferable to CSU Hours: 24-27 lecture

Students will identify personal strengths and weaknesses in key skill areas and develop a plan for obtaining the skills they need. Professional and educational samples will be collected, categorized, and evaluated. Students will analyze how the career portfolio can be used as a tool for the job search as well as career advancement. An electronic career portfolio will be completed by the end of this course. Students will be learning a portfolio development software tool (Portfolium or similar tool) and will be required to have and be able to upload documentation of work and educational achievements.

Occupational Work Experience

Corequisite: Student must be working (paid or unpaid) from 5 to 40 hours per week for a licensed business for a total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Duties must be directly related to student's declared major.

Transferable to CSU

Supervised employment extending classroom-based occupational learning at an on-the-job learning station related to the student's educational or occupational goal. Student must be working (paid or unpaid) in a job, volunteer, or internship position for a legal business or nonprofit agency and can identify a workplace supervisor to assist in identifying and evaluating workplace semester goals. Student must remain employed for the duration of the semester. Work must be directly related to the declared major. Students will attend a weekly coordination seminar and develop job-oriented objectives at their worksite. Students will complete Title 5 Education Code Documents (Agreement, Application, Learning Objectives, Timesheet, Supervisor's Evaluation) that document the student's progress and hours spent in the workplace; and development of workplace soft skills and employability skills relevant to the 21st Century Workplace. Learning objectives will be developed in collaboration between the student, employer, and Work Experience instructor to best meet the student's level of learning. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work during the semester to a maximum of 8 units per semester. Students wishing to continue OCED 090 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance. Financial Aid and Veterans may have other limits on the number of times this course may be taken. Up to 12 units of Occupational Work Experience may transfer to CSU as elective credits. This course may not be taken concurrently with any other work experience, fieldwork, or practicum course. Course may be taken up to the maximum number of units over multiple semesters (total of all work experience courses cannot exceed 16 units).

OCED - Occupational Education

OCED 091 General Work Experience 1.0 to 16.0 Units

Corequisite: Student must be working from 5-30 hours or more per week for a licensed business for a semester total of 75 hours per unit for paid work and 60 hours per unit for unpaid work. Job does not need to be related to major.

Transferable to CSU

Supervised employment that is intended to assist students in acquiring desirable work habits, attitudes, and career awareness. The student must be working (paid or unpaid) for a legal business or nonprofit agency and can identify a workplace supervisor to assist in identifying and evaluating workplace semester goals. Student must remain employed for the duration of the semester. Work does not need to be related to declared major. Student will attend a weekly coordination seminar and develop job-oriented objectives at their work-site. Student will complete Title 5 Education Code Documents (Agreement, Application, Learning Objectives, Timesheet, Supervisor's Evaluation) that document the student's progress and hours spent in the workplace; and development of workplace soft skills and employability skills relevant to the 21st Century Workplace. Learning objectives will be developed in collaboration between the student, employer, and Work Experience instructor to best meet the student's level of learning. 1 unit of credit may be earned for each 75 hours paid or 60 hours unpaid work during the semester to a maximum of 6 units per semester. Students wishing to continue OCED 091 in subsequent semesters must contact the Work Experience Coordinator for enrollment assistance. Financial Aid and Veterans may have other limits on the number of times this course may be taken. Up to 6 units of General Work Experience may transfer to CSU as elective credits. This course may not be taken concurrently with any other work experience, fieldwork, or practicum course. Course may be taken up to the maximum number of units over multiple semesters (total of all work experience courses cannot exceed 16 units).

OT - Office Technology

1.5 Units

1.5 Units

OT 054A **Beginning Keyboarding A**

Transferable to CSU Hours: 24-27 lecture

An individualized beginning keyboarding course taught on the computer. Touch typing is developed for the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 20 words per minute. Students may test out of the course if they can meet a minimum of 20 wpm with proper technique.

Beginning Keyboarding B

Prerequisite **: OT 054A or permission of faculty

Transferable to CSU Hours: 24-27 lecture

An individualized beginning keyboarding course taught on the computer. Touch typing is developed for the alphabet, punctuation, symbols, and top row number keys. Speed will be built to a minimum of 30 words per minute. Materials studied include production of documents such as correspondence, memos, reports and tables in standard formats.

OT 055A 1.5 Units

Intermediate Keyboarding/Word Processing A

Prerequisite **: OT 054B or permission of faculty Course Advisory: CIS 066 with a minimum grade of C

Transferable to CSU Hours: 24-27 lecture

A keyboarding course using a computer with units of study including skill building, correspondence, reports, compositions, tables, special projects, and business forms. Speed will be built to a minimum of 35 words per minute.

OT 055B 1.5 Units

Intermediate Keyboarding/Word Processing B

Prerequisite **: OT 055A or permmission of faculty

Transferable to CSU Hours: 24-27 lecture

An individualized keyboarding course using a computer with units of study including skill building, correspondence, reports, compositions, tables, special projects, and business forms. Speed will be built to a minimum of 40 words per minute.

OT 056 2.0 Units

Business Grammar and Proofreading

Transferable to CSU Hours: 32-36 lecture

Prepares students for professional work in an office with a heavy emphasis on business grammar and proofreading.

OT 060 **Administrative Medical Assistant**

Transferable to CSU

Hours: 48-54 lecture

Introduction to the responsibilities of an Administrative Medical Office Assistant including: HIPPA (legal and ethical considerations), interpersonal-skills, scheduling appointments in person and by telephone, records and file management, written communications, and financial duties.

OT 061 **Health Insurance**

3.0 Units

3.0 Units

Transferable to CSU Hours: 48-54 lecture

Introduction to health insurance claims processing and reimbursement issues. Discusses the major health care insurance programs and the impact of federal regulations. The course introduces the use of diagnosis and procedures coding. Teaches the student how to accurately complete a claim.

1.0 Unit **OT 100**

Skill Building on the Computer Keyboard

Course Advisory: Ability to touch type at 20 wpm

Hours: 16-18 lecture

Individualized skill building keyboarding course taught on the microcomputer. Speed and accuracy skills are enhanced on the alphabet, punctuation, and numbers. The unit of study includes identifying the specific needs of the individual and then assigning diagnostic drills, skilldevelopment practice and pre-and post-testing. The skill building goal will be to increase typing speed or straight copy 3- to 5-minute timed writings between 5 to 10 words per minute above the starting rate with an accuracy level of not more than one error per minute.

OT 101 3.0 Units

Study of Human Diseases for Medical Assistants

Hours: 48-54 lecture

Study of the pathological process, imparting basic knowledge to paramedical personnel. The student will study the basic concepts, terminology, etiology and characteristics of pathological processes. Diseases are classified according to both causative agents and the body system to which they relate.

OT - Office Technology

OT 151 Office Systems & Procedures

3.0 Units

Prerequisite **: OT 101 and NURS 111.

Hours: 48-54 lecture

OT 164

Explores the guidelines, conventions, and process for selecting procedural codes for inpatient claims. The course will focus on Prodcedural Coding System (PCS) coding in compliance with The Centers for Medicare and Medicaid Services (CMS) and the National Center for Health Statistics (NCHS) guidelines for coding and reporting using the International Classification of Diseases, Procedure Coding System (ICD-PCS). ICD-PCS is a procedure classification published by the United States for classifying procedures performed in hospital inpatient health care settings.

3.0 Units

Intermediate ICD PCS Coding

Corequisite: One unit of OCED 090

Prerequisite **: Typing rate of 45 words per minute and microcomputer word processing skills

Hours: 48-54 lecture

An advanced level course designed to complete the training of Office Technology program students in office systems and procedures. Course should be taken during the student's final semester of the program or as a refresher for experienced business students. One unit of work experience will be required in the specialty area of the student's major.

OT 158 Medical Office Computer Applications 3.0 Units

Corequisite: NURS 111 with a minimum grade of C

Hours: 48-54 lecture

Navigates through the operations of a web-based Electronic Health Record/Total Practice Management program.

OT 162 Ten-Key

1.0 Unit

Hours: 16-18 lecture

Individualized course offering the fundamentals of operating the ten-key microcomputer number keypad. The touch system of operation and continuous speed and accuracy development are emphasized throughout the course.

3.0 Units OT 163 Introduction to Diagnostic Coding

Prerequisite **: OT 101 and NURS 111

Course Advisory: A minimum grade of C in BIO 016 and BIO 016L

Hours: 48-54 lecture

Introduction to the basic principles of coding disease and procedures using the INTERNATIONAL CLASSIFICATION OF DISEASE, Clinical Modification (ICD-CM) and the ICD-CM coding handbook for the entry-level coders. Current ICD-CM books only will be utilized in this course. The accuracy of coding using the ICD-CM manual is the focus of this course. The impact of coding on reimbursement will be discussed.

Current Procedural Coding 3.0 Units

Prerequisite **: A minimum grade of D in both NURS 111 and OT 101 Course Advisory: A minimum grade of C in OT 063 and 064 Hours: 48-54 lecture

Covers the principles and mechanics of coding professional services rendered using the CURRENT PROCEDURAL TERMINOLOGY (CPT-IV) coding system.

PHIL - Philosophy

PHIL 001

3.0 Units

PHIL 006 Introduction to Political Philosophy 3.0 Units

Introduction to Critical Thinking and Reasoning

Course Advisory: ENGL 001

General Education: SCC: Area D3; CSU: Area A3

Transferable to UC/CSU
Hours: 48-54 lecture

Study of logical thinking and reasoning in everyday life. Emphasis is on informal logic in contrast to formal symbolic logic. Special attention is given to 'computer literacy' and 'educational television.' Critical reading and writing is required. The course does not fulfill the IGETC critical thinking requirement.

Course Advisory: ENGL 001

General Education: IGETC: Area 3B, 4; CSU: Area D

Transferable to UC/CSU
Hours: 48-54 lecture

An inquiry into fundamental political concepts in political thought (e.g. justice, freedom, equality, power, authority, obligation and citizenship) as expressed by major political thinkers. Includes the study of basic skills, criticisms, and methods in political inquiry relevant to the life and education of citizens. Critical reading and writing is required.

PHIL 003 Introduction to Philosophy

3.0 Units

3.0 Units

Course Advisory: ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU Hours: 48-54 lecture

General introduction to the central methods and recurring problems in the Western philosophical tradition. Topics of inquiry are theories of knowledge, theories of existence, philosophy of religion, free will and determinism, and the mind-body problem. (C-ID PHIL 100)

PHIL 400 Bioethics

3.0 Units

Prerequisite**: Admission into the Biomanufacturing degree program; Permission of faculty; ENGL 001 and MATH 011

Hours: 48-54 lecture

Builds upon a philosophical and critical thinking foundation to train students to be able to model sound ethical decision making in the life science and medical fields. The course requires application of moral theory to a variety of problems in the life science and medical fields such as: genetic engineering, stem cells, allocation of resources, medically assisted dying, genetic screening, genetic alteration, abortion and reproductive rights, and experiments on human or animal subjects. Enrollment in this upper division General Education course is limited to students enrolled in the Bachelors of Science in Biomanufacturing program.

PHIL 004 Introduction to Moral Philosophy

Course Advisory: ENGL 001

General Education: SCC: Area C; IGETC: Area 3B; CSU: Area C2

Transferable to UC/CSU
Hours: 48-54 lecture

Introduction to moral philosophy and major ethical theories of the Western philosophical tradition. Critical reading and writing are required.

PHIL 005 3.0 Units

Critical Thinking: The Philosophic Grounds of Literacy

Prerequisite**: ENGL 001 with a minimum grade of D General Education: SCC: Area C; CSU: Area A3

Transferable to UC/CSU
Hours: 48-54 lecture

Educates students in the fundamental principles of sound and cogent thinking and reasoning expressed primarily in argumentative essays. More specifically, the course is a practicum in critical literacy, i.e., the written practice and refinement of fundamental skills and dispositions required in effective argumentation, critical analysis and evaluation, conceptual inquiry, and discursive expression in general. The study of exemplary argumentative writings from a variety of philosophical, social, and political sources is integral. Objective exams and critical essays are required. This course fulfills the IGETC critical thinking requirement.

PHOT - Photography

PHOT 029 Introduction to Photography

3.0 Units

PHOT 035 The Art of Photography

3.0 Units

Hours: 32-36 lecture, 48-54 lab

An introduction to photography, including a brief history and discussion of image composition, camera usage, workflow and output options. Most of the course will concern digital cameras and processes, but there will be a short component on film photography. This course is a prerequisite to the Professional Photography program and most other photography courses. Students will have access to the department labs. DSLR (Digital Single Lens Reflex) camera is required. Department has some cameras for loan to students who cannot supply their own camera. (formerly PHOT 070)

PHOT 030 Beginning Film Photography

3.0 Units

Course Advisory: PHOT 035; ART 011

Transferable to UC/CSU Hours: 32-36 lecture, 48-54 lab

Introduction to black and white film photography. Includes a brief history and discussion of image composition, with special emphasis on darkroom techniques, photographic principles and materials. Camera equipment is essential for this course and there are a substantial number of cameras for loan. SLR 35mm film camera and related materials are required. *Field trip may be required*.

PHOT 031 Intermediate Photography

3.0 Units

Prerequisite**: PHOT 029 General Education: CSU: Area C1 Transferable to UC/CSU Hours: 32-36 lecture, 48-54 lab

Further develops a student's basic technical and visual skills with an emphasis on continued visual literacy. Students will work primarily with digital cameras, with the option to complete some projects with a film camera. A DSLR camera is required. The photo department has cameras available for loan for students who are unable to provide their own equipment.

PHOT 032 Digital Imaging

3.0 Units

Prerequisite**: PHOT 029 Transferable to UC/CSU Hours: 32-36 lecture, 48-54 lab

A comprehensive exploration of the management and development of digital photos, including the use of contemporary, industry standard software to catalog, optimize and transform images. Best practices, from capture to printing, will be covered and personal vision and creativity will be emphasized. SLR digital camera required. The department has some cameras for short term loan for students who have difficulty acquiring their own. (Formerly PHOT 071)

Course Advisory: ENGL 001; ART 011

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU Hours: 48-54 lecture

Introduction to photography and visual literacy through a survey of historical and contemporary movements and photographers. Students will complete photo assignments related to course content to deepen their understanding of the concepts. Camera equipment is not provided by the college. Students registering for this class may use any film or digital camera to complete assignments. Access to a film or digital camera is required to complete some assignments. Any camera is acceptable. Field trips may be required.

PHOT 040 Alternative Photography

3.0 Units

Course Advisory: PHOT 035; ART 038

Transferable to UC/CSU Hours: 32-36 lecture, 48-54 lab

Experiment with alternative photographic and nonphotographic materials to create visual images. Camera equipment is not provided by the college.

PHOT 045 DSLR Videography

3.0 Units

Course Advisory: PHOT 029 with a minimum grade of C; ENGL 001

Transferable to UC/CSU Hours: 32-36 lecture, 48-54 lab

Augments the professional photography courses with the ability to create digital video content via a DSLR camera. DSLR camera is required.

PHOT 056 3.0 Units

Photojournalism & Documentary Photography

Prerequisite **: PHOT 030 or PHOT 070

Hours: 32-36 lecture, 48-54 lab

Transferable to CSU

Covers aspects of the camera as an editorial, journalistic and documentary tool. Covered are news and feature photography and photographic essays, including composition, impact, and creativity, for newspapers, magazines, Internet and other mass communications media. A camera is not provided by the College for this course. SLR film or SLR digital camera required. (C-ID JOUR 160)

PHOT - Photography

PHOT 151

3.0 Units

PHOT 158 Photo Illustration

3.0 Units

Professional Photography: Introduction

Prerequisite**: PHOT 029 (formerly 070)

Hours: 24-27 lecture, 72-81 lab

Designed for students who are considering a career in photography. Students will be exposed to the technical and creative possibilities of genres of professional photography, including portraiture, fashion, still life and product, documentary, and fine art. SLR Digital camera required. Field trips may be required.

PHOT 152 3.0 Units

Professional Photography: Portraiture

Prerequisite**: PHOT 029 (formerly 070)

Hours: 24-27 lecture, 72-81 lab

A focus on varied applications of photographic portraiture in the applied and fine art environments, with attention to lighting, concept and aesthetics. SLR Digital camera required. *Field trip may be required*.

PHOT 153 3.0 Units

Professional Photography: Product and Advertising

Prerequisite**: PHOT 029 (formerly 070)

Hours: 24-27 lecture, 72-81 lab

Explore varied film and lighting techniques to execute photographs in the context of advertising. Assignments will vary from studio work to location settings using a wide variety of subjects (food, wine, autos, etc). SLR Digital camera required. *Field trip may be required*.

PHOT 154 3.0 Units

Professional Photography: Interior and Exterior

Prerequisite**: PHOT 029 (formerly 070)

Hours: 24-27 lecture, 72-81 lab

Provides the student with skills to photograph architecture in the rural and urban landscape. SLR Digital camera required. *Field trip may be required*.

PHOT 156 Portfolio Development 3.0 Units

Prerequisite**: PHOT 151 and PHOT 152, PHOT 153 or PHOT 154

Hours: 32-36 lecture, 48-54 lab

An advanced course designed to serve the student in the preparation of a professional fine art or commercial portfolio. Emphasis is placed on individual direction and personal goals. The student can expect individual consultation by the instructor. A digital or film camera is required. Approximately \$200 in photographic materials.

Prerequisite**: PHOT 032 and either ART 045A or ART 046

Hours: 32-36 lecture, 48-54 lab

Builds on digital media skills in graphic design and photography. Students use original photos and advanced compositing layering and design to create a portfolio of illustrations suitable for editorial, commercial, or fine art applications. Student will need a Digital SLR camera and a portable external hard drive (minimum 500GB). The photo department has some equipment to loan students who are unable to provide their own.

PHOT 161 Workshop: Camera Intensive 1.0 Unit

Hours: 8-9 lecture, 24-27 lab

Introduction to Digital Single Lens Reflex (DSLR) camera capture and basic software skills. Students will learn how to operate their camera effectively in manual mode as well as use a wide range of camera features. Not eligible to students that have successfully completed PHOT 029. DSLR camera is required. Department has some cameras for loan to students who cannot supply their own camera.

PHOT 162 1.0 Unit

Workshop: Portraiture and Studio Lighting

Hours: 8-9 lecture, 24-27 lab

A studio portraiture course, including an introduction to using studio lighting. Not eligible to students that have successfully completed PHOT 152. DSLR camera is required. Department has some cameras for loan to students who cannot supply their own camera.

PHOT 163 1.0 Unit

Landscape and Nature Photography

Course Advisory: A minimum grade of C in either PHOT 029 (formerly 070) or PHOT 161

Hours: 8-9 lecture, 24-27 lab

An intensive, hands-on immersion in strategies and techniques for making strong, evocative landscape and nature photographs. Classes will include presentations, demonstrations, exercises and field trips to local areas. Recommended for intermediate to advanced levels. DSLR camera is required. Department has some cameras for loan to students who cannot supply their own camera.

PHOT 164 1.0 Unit

Digital Printing for Photographers

Course Advisory: PHOT 029 Hours: 8-9 lecture, 22-36 lab

Students will learn the basics of making digital prints from their photo files, including color management, preparing files, and printing on fine art and specialty paper by creating custom color (ICC) profiles.

PHSC - Physical Science

PHSC 012

4.0 Units

Global Climate Change

3.0 Units

Introduction to Principles of Physical Science

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU Hours: 48-54 lecture, 48-54 lab

Introduction to the physical universe from atomic particles to the stars, with emphasis on the basic principles of physics, chemistry, astronomy, and the geo-sciences. Meets the physical science requirement for general education for non-science majors. Field trips may be required.

PHSC 013 Weather and Climate

3.0 Units

Corequisite: PHSC 014

General Education: IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU Hours: 48-54 lecture

An introduction to modern meteorology. Topics include air circulation, pressure and wind, temperature, moisture, fronts, storm systems, cloud types, and air stability. The course will also include an introduction to interpreting weather maps, synoptic weather forecasting, and climate change. (PHSC 013 = C-ID GEOG 130) (PHSC 013 + PHSC 014 = C-ID GEOG 130)

PHSC 014 Atmospheric Science Laboratory 1.0 Unit

Corequisite: PHSC 013, PHSC 015 or PHSC 016 General Education: IGETC: Area 5C; CSU: Area B3

Transferable to UC/CSU Hours: 48-54 lab

Emphasizes the practical concepts of physical science and weather using demonstration and experimentation. Topics include the scientific method, Newton's laws of motion, heat and energy transfer, the gas law, and fluid dynamics. Other experiments will demonstrate weather observation techniques, collection and analysis of atmospheric data, weather map study, cloud identification, interpretation of satellite imagery, and basic forecasting skills. This course includes a field trip to a local forecasting facility.

Course Advisory: Concurrent enrollment in PHSC 014 General Education: IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU Hours: 48-54 lecture

PHSC 015

Explores the principles underlying the interdisciplinary and rapidly growing field of climate science and climate change. Topics include the Earth's climate system and climate history, the physics and chemistry of greenhouse gases, and evidence for climate change. The course investigates human influences on the climate system, including greenhouse gas emissions, and potential impacts of climate change. It also considers various possible responses to climate change, including alternative energy production, policy responses, and adaptation. Field trips may be required.

PHSC 016 Natural Disasters

3.0 Units

Course Advisory: Concurrent enrollment in PHSC 014 General Education: IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU Hours: 48-54 lecture

An introduction to the hazards created by the earth's natural and physical processes covering a broad scientific understanding of earthquakes, volcanoes, hurricanes, tsunamis, tornadoes, flooding, wildfires, and other disasters. Other topics will include threats from the earth's changing climate and potential impacts from asteroids and comets. Atmospheric and geological processes that create these catastrophes will also be discussed. The concept of science and the scientific method will be introduced and applied to the course material. Field trips may be required.

PHYS - Physics

PHYS 002 General Physics (Non-Calculus)

5.0 Units

5.0 Units

Prerequisite **: MATH 004 or MATH 051

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1

Transferable to UC/CSU Hours: 64-72 lecture, 48-54 lab

First in a two-semester sequence with PHYS 004 in introductory physics using math through trigonometry. Recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. The course covers the study of motion, energy, momentum, gravitation, solids, fluids, thermodynamics and the gaseous state, vibration, wave motion, and sound. Experiments relating to the topics covered will be performed and students will analyze the experiments. Field trip may be required. (C-ID PHYS 105)

PHYS 004 General Physics (Non-Calculus)

Prerequisite **: PHYS 002

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

Second in a two-semester sequence with PHYS 002 in introductory physics using math through trigonometry. Recommended for teachers, technicians, pre-dentistry, pre-medical, and biology majors, and others who need a general physics course. The course is a study of electricity, magnetism, light and optics, and modern physics. Students learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. Field trip may be required. (C-ID PHYS 110)

PHYS 006 Physics for Science and Engineering 5.0 Units

Prerequisite**: MATH 021 (may enroll concurrently)

Course Advisory: PHYS 002 with a minimum grade of C or high school physics

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

First in a three-semester sequence with PHYS 007 and PHYS 008 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A study of mechanics, gravitation, vibration and fluids. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed. (C-ID PHYS 205)

PHYS 007

5.0 Units

Physics for Science and Engineering

Prerequisite**: PHYS 006 and MATH 021

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU Hours: 64-72 lecture, 48-54 lab

Second in a three-semester sequence with PHYS 006 and PHYS 008 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A continued covering of topics including electricity, magnetism, wave motion, and sound. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed. (C-ID PHYS 210)

PHYS 008 5.0 Units

Physics for Science and Engineering

Prerequisite**: PHYS 006 and MATH 021.

General Education: SCC: Area A; IGETC: Area 5A, 5C; CSU: Area B1, B3

Transferable to UC/CSU

Hours: 64-72 lecture, 48-54 lab

Third in a three-semester sequence with PHYS 006 and PHYS 007 in introductory physics requiring math through calculus. This sequence satisfies the lower division physics requirement for majors in physics, chemistry, geology or other physical sciences, and engineering. A continued covering of heat, optics, relativity, and modern physics. Students will learn to analyze and solve problems appropriate for this level in these topics. Experiments relating to the topics covered will be performed and students will analyze the experiments. *Field trip may be required.* (C-ID PHYS 215)

PHYS 010 Descriptive Physics

3.0 Units

Course Advisory: MATH 330 or MATH 330B

General Education: SCC: Area A; IGETC: Area 5A; CSU: Area B1

Transferable to UC/CSU

Hours: 48-54 lecture

An introductory physics course for both the non-science and the beginning science student. Includes topics such as nuclear physics, relativity, mechanics, properties of matter, quantum physics, heat, light, electricity and magnetism, sound and waves. Written assignments, tests, and a comprehensive final exam will be used to evaluate student success. Field trip may be required.

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**All Prerequisite courses must be completed with a minimum grade of C, or a P if taken on a Pass/No Pass basis, unless otherwise noted

PLSC - Political Science

PLSC 001 3.0 Units PLSC 005 3.0 Units

Introduction to American Government and Politics

General Education: SCC: Area B1; IGETC: Area 4, CSU 1;

CSU: Area D, CSU 1 Transferable to UC/CSU Hours: 48-54 lecture

Introduction to the theory and practice of American politics, this course includes an analysis of the operation of national, state, and local governments, as well as the U.S. and California Constitutions. (C-ID POLS 110)

PLSC 002 3.0 Units

Introduction to Comparative Government

Course Advisory: PLSC 001; ENGL 001 with a minimum grade of C General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

The political institutions of selected industrialized and developing nations are examined comparatively. Emphasis is on the formation of political institutions; government; political culture; ethnic groups; citizen and interest participation; political parties; and modern bureaucratic public policy roles. This course includes a 10-12 page research paper. (C-ID POLS 130)

PLSC 003 3.0 Units

Introduction to International Politics

Course Advisory: PLSC 001 with a minimum grade of C; ENGL 001 General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

An introductory study of the international system from the U.S. perspective focusing on such concepts as the nation state and nationalism, power, war and military strategy, international law and approaches to international peace and stability. (C-ID POLS 140)

PLSC 004 Introduction to Political Science 3.0 Units

Course Advisory: ENGL 001 with a minimum grade of C General Education: SCC: Area B1; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

An introduction to political science designed to familiarize students with basic political concepts, political ideologies, political systems, and subfields within political science. (C-ID POLS 150)

Constitutional Rights in a Multicultural Society

Course Advisory: PLSC 001; ENGL 001

General Education: SCC: Area B1, E; IGETC: Area 4, CSU 1, SCC Cross-

Cultural; CSU: Area D, CSU 1, SCC Cross-Cultural

Transferable to UC/CSU Hours: 48-54 lecture

Introduction to Constitutional rights, this course will highlight the impact of European, Native American, African American, Asian American, and Latino American cultures on United States and California law and government. The effect of the legislative, executive, and judicial branches will be explored. Cross-cultural issues will also be an integral part of this inquiry, including the freedom of expression, religious culture, and the politics of ethnic groups.

PLSC 006 Introduction to Political Philosophy 3.0 Units

Course Advisory: ENGL 001 or ENGL 062

General Education: SCC: Area B2; IGETC: Area 3B, 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

An inquiry into fundamental political concepts in political thought (e.g. justice, freedom, equality, power, authority, obligation and citizenship) as expressed by major political thinkers. Includes the study of basic skills, criticism, and methods in political inquiry relevant to the life and education of citizens. Critical reading and writing are required. (C-ID POLS 120)

3.0 Units

PLSC 007 International Relations

Course Advisory: PLSC 001 with a minimum grade of C General Education: SCC: Area B1; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

An introduction to international relations theory with an examination of national, international, transnational, and sub-national actors and their institutions, interactions and processes as they relate to global issues. Designed to give students a foundation for the study of international relations, it provides a backdrop to understanding global interdependence, its causes and consequences. Included are political, economic, historical, philosophical, cultural, geographical, and environmental dimensions of interdependence. (Formerly IR 001) (*C-ID POLS 140*)

PLSC - Political Science

3.0 Units

PLSC 016 The American Legal System

Course Advisory: PLSC 001; ENGL 001

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

Introduction to the American legal system and influence of other legal systems, emphasizing the evolution of legal concepts in response to the changing environment. The American judicial system will be analyzed to include civil and criminal procedure, torts & contracts, as well as current legal issues including the death penalty, insanity defense, drugs, environmental law, right to die, forensic evidence and role of juries.

PLSC 019 3.0 Units

Human Rights and Sexual Orientation

Course Advisory: ENGL 001

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

An introduction to gay/lesbian studies with an analysis of a variety of concepts and theories in relation to political science, gay rights and the law, the politics of AIDS, health issues, the political/religious right, marriage and family, and current gay agenda issues.

PLSC 049 Political Science Honors 1.0 to 3.0 Units

Prerequisite**: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 6 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability.

Transferable to CSU

Hours: 48-162 lab by arrangement

Independent study project which results in a critical examination of government, politics, or law. Students may take this course up to the maximum number of units over multiple semesters.

PLSC 050 Student Leadership

1.0 Unit

Transferable to CSU

Hours: 32-36 lab, 16-18 lab by arrangement

A class devoted to the practical application of the governmental process through participation in the student government program. Open to all students.

PSYC - Psychology

PSYC 001 Introduction to Psychology

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

Introduction to psychology as the scientific study of human behavior and mental processes. Major topics include history of field, scientific method, sensation and perception, brain and nervous system, states of consciousness, development, learning, memory, cognition, motivation, emotion, personality, tests and measurements, health psychology, behavior disorders and treatment, and social psychology. (C-ID PSY 110)

PSYC 002 Biological Psychology

3.0 Units

3.0 Units

Prerequisite **: PSYC 001

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

A focus on the relationship of genetic and physiological factors to behavior. Topics include how the brain and nervous system influence behavior including perception, sexual behaviors, sleep, drug use, disorders, memory and learning. Current theories and research in biological psychology are reviewed. (C-ID PSY 150)

PSYC 004 3.0 Units

Research Methods in Behavioral Science

Prerequisite **: PSYC 001 and MATH 011

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

Introduction to basic research methods in the behavioral sciences. Assumptions and goals of science are considered as well as several specific research techniques or designs. The ethics of research with human and animal subjects will be covered. (C-ID PSY 200)

PSYC 005 Abnormal Psychology

3.0 Units

Prerequisite**: PSYC 001 with a minimum grade of D Course Advisory: ENGL 001, LR 010, ENGL 062

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

An overview of psychological disorders surveying selected disorders in the current version of the Diagnostic and Statistical Manual (DSM), including mood disorders (such as depression, bi-polar disorder), anxiety disorders, psychotic disorders (such as schizophrenia), personality disorders, eating disorders and others. The course discusses historical and scientific approaches to explain and to treat these disorders from bio-psycho-social perspectives. (C-ID PSY 120)

PSYC 006 Developmental Psychology

3.0 Units

Course Advisory: PSYC 001

General Education: IGETC: Area 4; CSU: Area D, E

Transferable to UC/CSU Hours: 48-54 lecture

Study of development from the prenatal period through the lifespan. Emphasis will be on current theories and research in developmental psychology. Physical, cognitive, social-emotional, intellectual and linguistic aspects of development will be examined. Included are influences of family, society and culture. This course does not fulfill the lifespan requirement for the nursing major. (C-ID PSY 120)

PSYC 007 Cross-Cultural Psychology

3.0 Units

Course Advisory: PSYC 001 with a minimum grade of C General Education: SCC: Area E; IGETC: Area 4;

CSU: Area D, SCC Cross-Cultural

Transferable to UC/CSU Hours: 48-54 lecture

An overview of cross-cultural psychology with critical and comparative study of psychological topics such as ethnicity, gender, cognition, emotion, personality, health, and social interaction. Various ethnic populations within the United States, cultural values and individual beliefs will be examined in this class. Contemporary and historical research on the influence of culture on human psychology is reviewed. A service learning activity and/or field trip may be part of this class.

PSYC 012 Introduction to Gender

3.0 Units

Course Advisory: PSYC 001

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

An examination of the psychological, sociological, biological, cognitive, and cultural theories and research of sex and gender. Analysis of the effects of gender expectations and practices on individual development, health, relationships, and the workplace. Includes agents of socialization, impact of economic and political change, social construction of sexuality and gender identities, and intersectional aspects of gender which includes race, ethnicity, and class. Open to all students. (C-ID SOCI 140) (C-ID SJS 120)

PSYC - Psychology

PSYC 020 Personal and Social Behavior

3.0 Units

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D, E Transferable to UC/CSU

Hours: 48-54 lecture

Study of human behavior in the process of adjusting to life's changes. The emphasis is on normal and abnormal adaptations to the various challenges which life presents. Issues related to the major schools of thought and their views towards a healthy personality effective and ineffective behavior, behavioral disorders, psychotherapy, relationships, careers and personal growth will be examined.

PSYC 030 Introduction to Social Psychology 3.0 Units

Course Advisory: PSYC 001

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

Explore how thoughts, feelings, and behavior of individuals are influenced by the actual, imagined, or implied presence of others. Focus will be on the social factors that influence human behavior; other people, institutions, situations and the social and physical structures people have created. A review of the various perspectives unique to social psychologists and a variety of classical research in social psychology will be studied. Same course as SOC 030. (C-ID PSY 170)

PSYC 034 Human Sexual Behavior

3.0 Units

General Education: IGETC: Area 4; CSU: Area D, E

Transferable to UC/CSU Hours: 48-54 lecture

Objective exploration of the various issues pertaining to human sexual behavior from the perspective of the behavioral and social sciences. Some of the major topics to be discussed include history of sexuality, attitudes, behaviors, life styles, psychosexual development, role and identity, sexual dysfunctions, therapy and treatment.

PSYC 040 Drugs, Society and Behavior

3.0 Units

General Education: CSU: Area E Transferable to UC/CSU Hours: 48-54 lecture

The historical, sociological, psychological, physiological, pharmacological and legal aspects of drugs. Emphasis will be placed on the effects of stimulants, sedative-hypnotics, narcotics, hallucinogens, alcohol, marijuana and inhalants. Various education, prevention and treatment approaches will be discussed.

PSYC 049 Psychology Honors 1.0 to 3.0 Units

Prerequisite **: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

Independent study designed for honor students who intend to major in psychology. Students may take this course up to the maximum number of units over multiple semesters.

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RE - Real Estate

RE 164 Real Estate Principles

3.0 Units

RE 175 Principles of Appraisal

3.0 Units

Hours: 48-54 lecture

Study of the characteristics of real estate from physical, legal, and economic standpoints. Course material is designed to assist those preparing for the real estate salespersons and brokers license examination.

RE 171 Real Estate Economics

3.0 Units

Hours: 48-54 lecture

Study of the economic aspects of real estate and their effects on real estate markets, urban growth and finance. Particular emphasis is made on governmental and agency controls on development of regional and local areas, past and future.

RE 172 Real Estate Practice

3.0 Units

Hours: 48-54 lecture

A comprehensive study of the techniques used to successfully operate a real estate business. Includes office management administration, in-service training of associate licensees, legal and statutory compliance, and agency and other oversights. Designed for students needing a course for education as required by the Department of Real Estate.

RE 173 Legal Aspect of Real Estate

3.0 Units

Hours: 48-54 lecture

Comprehensive study and analysis of California law as applied to the legal problems involved in real estate transactions. Includes contract, agency, and finance devices.

RE 174 Real Estate Finance

3.0 Units

Hours: 48-54 lecture

Comprehensive study and analysis of money markets, interest rates, and financing as applied to real estate transactions.

Hours: 48-54 lecture

Entry level appraisal course introducing students to basic appraisal principles and the Uniform Standards of Professional Appraisal Practice. Content includes: Influences on value, legal considerations, economic principles, real estate markets and analysis, valuation process, property description, highest and best use analysis, appraisal statistics, sales comparison and cost approaches to value.

RE 176 3.0 Units

Advanced Residential Appraisal Practice

Hours: 48-54 lecture

Advanced appraisal course covering the principles, procedures and techniques needed to appraise all types of residential properties up to four units. The content includes: Review of basic appraisal principles, use of all Federal National Mortgage Association (FNMA) forms, basic income and expense estimating, gross rent multipliers, appraisal ethics and the Uniform Standards of Professional Appraisal Practice (USPAP). Students will appraise a custom home, a condominium and a small income residential property.

RE 177 3.0 Units

Income Property Appraisal and Analysis

Prerequisite**: RE 175 with a minimum grade of D

Hours: 48-54 lecture

Advanced appraisal course covering the principles, procedures and techniques needed to appraise commercial property, including large apartment buildings. The course will include review of basic appraisal principles, income and expense estimating, operating expense ratios, direct capitalization, cash flow estimates, measures of cash flow and discounted cash flow analysis. The use of financial calculator will be required.

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SJS - Social Justice/Ethnic Studies

Social Justice Studies

SJS 001 Introduction to Social Justice Studies 3.0 Units

General Education: IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

Interdisciplinary introduction to the study of race/ethnicity, gender, and sexuality in the United States. Examines social justice movements and perspectives in relation to ethnicity/race, gender and sexuality, and related intersectional systems of difference in the United States. Analysis of antiracist and feminist perspectives serves as a basis for understanding socio-economic, cultural and political inequities in the United States and globally, and for assessing strategies for creating greater equity and inclusion for all. (C-ID SJS 110)

SJS 002 Introduction to Race and Ethnicity 3.0 Units

General Education: SCC: Area E; IGETC: Area 4, SCC Cross-Cultural; CSU: Area D. SCC Cross-Cultural

Transferable to UC/CSU Hours: 48-54 lecture

Analysis of race, ethnicity, and racism. Examines the cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, as well as historical and contemporary patterns of interaction between various racial and ethnic groups. (C-ID SOCI 150)

SJS 030

3.0 Units

Peace, Non Violence and Conflict Resolution

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D Transferable to UC/CSU

Hours: 48-54 lecture

Introduction to the study of peace, nonviolence and peaceful conflict resolution. The course is designed for students interested in the fundamental issues of peace, justice, and conflict resolution in our society. It offers students an opportunity to reflect on the peace writings of both past and contemporary authors and is an examination of justice, peace, and peacemakers in the U.S. and worldwide. (Formerly SOCS 030)

SOC - Sociology

SOC 001 Introduction to Sociology

3.0 Units

SOC 045 Sociology of Religion General Education: IGETC: Area 4; CSU: Area D 3.0 Units

Transferable to UC/CSU Hours: 48-54 lecture

Introduction to sociology with analysis of a variety of concepts and theories in relation to culture, socialization, social inequality, race relations, sex roles, deviance, and the distribution of political and economic power.

(C-ID SOCI 110)

SOC 002 **Social Issues and Problems** 3.0 Units

Course Advisory: SOC 001

General Education: SCC: Area B1; IGETC: Area 4; CSU: Area D

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

Analysis of selected social problems, including race relations, urban decay, suburban sprawl, crime, population problems, environment, and changes in the familial, economic and political institutions. (C-ID SOCI 115)

SOC 023 Sociology of African Americans 3.0 Units

Course Advisory: SOC 001 or SOC 022

General Education: SCC: Area B2; IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

An introductory sociological study of African Americans. Emphasis will be on culture, community, social institutions, social relationships and social problems.

Sociology of the Family **SOC 040**

3.0 Units

Course Advisory: SOC 001

General Education: IGETC: Area 4; CSU: Area D

Transferable to UC/CSU Hours: 48-54 lecture

A comparative cultural view of the family as an institution, the history of the family and its present role in our society with a special emphasis on kinship relations, sex roles, ethnic and economic variations of the family, and alternative family styles. (C-ID SOCI 130)

Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to the sociological study of religion in the United States, with an emphasis on the origins of religion, theoretical perspectives on religion, religious conflict, and the future of religion. This course also covers the absence of religion and alternative forms of religion.

SOC 049 Sociology Honors

1.0 to 3.0 Units

Prerequisite **: Completion of 24 units of college credit with a minimum GPA of 3.3; a minimum of 5 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement.

Independent study designed for honor students who intend to major in sociology. Students may take this course up to the maximum number of units over multiple semesters.

SOC 075 Introduction to Sociology of Sport 3.0 Units

Course Advisory: SOC 001 General Education: CSU: Area D

Transferable to CSU Hours: 48-54 lecture

Examines the nature, position, functions, and growing importance of sports in contemporary industrial society. Particular emphasis is given to the relationships between structure, variety, and extent of sports activity and other sectors of society, such as schools, churches, and the work place.

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SPAN - Spanish

SPAN 001 First Semester Spanish

5.0 Units SPAN 004 I

5.0 Units

General Education: SCC: Area C; IGETC: Area 6; CSU: Area C2

Transferable to UC/CSU Hours: 80-90 lecture

Introduces the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Students will interact with authentic language in a cultural context. NOTE: Not open for credit to students who have had two or more years of high school Spanish with a minimum grade of B within the last three years or to students who have completed SPAN 001S; or SPAN 031 and/or 032; or SPAN 061M and/or 062M. (C-ID SPAN 100).

SPAN 002 Second Semester Spanish

5.0 Units

Prerequisite **: SPAN 001, SPAN 001S, SPAN 032, SPAN 062M, or two years of high school Spanish with a minimum grade of C General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2 Transferable to UC/CSU

Hours: 80-90 lecture

A Continuation of SPAN 001, introduction the fundamentals of Spanish (listening, speaking, reading, writing and culture) with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary through authentic language in a cultural context. NOTE: Not open to students who have completed SPAN 002S; SPAN 033 and/or 034; or SPAN 063M and/or 064M. (C-ID SPAN 110).

SPAN 003 Third Semester Spanish

5.0 Units

Prerequisite**: SPAN 002, SPAN 002S, SPAN 034, SPAN 064M, or three years of high school Spanish with a minimum grade of C General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2 Transferable to UC/CSU

Hours: 80-90 lecture

Teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Students will interact with authentic language in context and express personal meaning, using different strategies and techniques that go beyond casual conversation, in order to express opinions, make suggestions on familiar topics, discuss some abstract issues, and make plans. Students will demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. Students will demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. This course will be taught in Spanish. (C-ID SPAN 200).

SPAN 004 Fourth Semester Spanish

Prerequisite**: SPAN 003 or four years of high school Spanish General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2

Transferable to UC/CSU Hours: 80-90 lecture

A continuation of SPAN 003, expanding upon culture and facilitate language acquisition through listening, speaking, reading and writing. Students will interact with authentic language in context and express personal meaning, using different strategies and techniques that go beyond casual conversation, in order to express opinions, make suggestions on familiar topics, discuss some abstract issues, and make plans. Students will demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. Students will demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. This course will be taught in Spanish. (C-ID SPAN 210).

SPAN 011 Conversational Spanish

3.0 Units

Prerequisite**: SPAN 002, SPAN 025, SPAN 034, or SPAN 064M General Education: IGETC: Area 3B, 6; CSU: Area C2

Transferable to UC/CSU Hours: 48-54 lecture

Promotes competency in the oral use of the language and to increase fluency by reinforcing previously learned materials and by expanding vocabulary and patterns of speech. This course emphasizes the practical application of the language, not grammar acquisition or review.

SPAN 031 First Semester Spanish, Part I

3.0 Units

General Education: SCC: Area C; CSU: Area C2

Transferable to UC/CSU Hours: 48-54 lecture

Introduces the basic elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester SPAN 001 requirement of some universities, transfer students must complete the sequence of SPAN 031 and 032. NOTE: Not open for credit to students who have received credit for SPAN 001; SPAN 001S; SPAN 061M; or who have had two or more years of high school Spanish with a minimum grade of B within the last three years.

SPAN - Spanish

3.0 Units

SPAN 032 First Semester Spanish, Part II

Prerequisite **: SPAN 031 or SPAN 061M

General Education: SCC: Area C; IGETC: Area 6; CSU: Area C2

Transferable to UC/CSU Hours: 48-54 lecture

A continuation of Spanish 031, presenting the fundamental elements of the language (listening, speaking, reading, writing and culture) with emphasis on language production, grammar, syntax, vocabulary building, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: In order to fulfill the one-semester SPAN 001 requirement of some universities, transfer students must complete the sequence of SPAN 031 and SPAN 032. NOTE: Not open for credit to students who have received credit for SPAN 001; SPAN 001S; SPAN 062M; or who have had two or more years of high school Spanish with a minimum grade of C within the last three years.

SPAN 033 Second Semester Spanish, Part I 3.0 Units

Prerequisite**: SPAN 001, SPAN 001S, SPAN 032, or SPAN 062M General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2 Transferable to UC/CSU

Hours: 48-54 lecture

A continuation of SPAN 001 (or SPAN 032), presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: Not open for credit to students who have received credit for SPAN 002, SPAN 002S, or SPAN 063M.

SPAN 034 Second Semester Spanish, Part II 3.0 Units

Prerequisite**: SPAN 033 or SPAN 063M

General Education: SCC: Area C; IGETC: Area 3B, 6; CSU: Area C2

Transferable to UC/CSU Hours: 48-54 lecture

A continuation of Spanish 033, presenting the fundamentals of Spanish (listening, speaking, reading, writing and culture), with increased emphasis on writing and continued stress on language production, pronunciation, grammar, syntax, acquisition of a practical vocabulary, and exposure to the Hispanic culture. Exams, quizzes, written assignments and completion of the activities manual will be used to evaluate student progress. NOTE: Not open for credit to students who have received credit for SPAN 002 or SPAN 002S.

SPAN 049 Spanish Honors 1.0 to 3.0 Units

Prerequisite **: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability

Transferable to CSU

Hours: 48-162 lab by arrangement

Independent study and research, by arrangement with the instructor, in specified fields of study in Spanish or creative writing in Spanish. Students may take this course up to the maximum number of units over multiple semesters.

SPMD - Sports Medicine

3.0 Units

SPMD 054

Care and Prevention of Athletic Injuries
Transferable to UC/CSU

Hours: 48-54 lecture

An introduction to the field of Athletic Training/ Sports Medicine as a profession and as an academic discipline. Designed to train students in the recognition, rehabilitation, and prevention of athletic injuries. Emphasis is on learning and applying a variety of taping techniques and athletic training therapies. Recommended introductory course for the Sports Medicine program.

SPMD 055A 3.0 Units

Sports Medicine-Athletic Training Practicum Fall Sports

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of lower extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Fall sport experience includes soccer, volleyball, rugby, and men's and women's basketball, those sports that pose most lower extremity injuries.

SPMD 055B 3.0 Units

Sports Medicine-Athletic Training Practicum Spring Sports

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of upper extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Spring sport experience include softball, baseball, men's and women's swimming and diving. Injuries specific to these sports includes most upper extremity injuries.

SPMD 056A

3.0 Units

Sports Medicine-Athletic Training Practicum Fall Sports 2

Prerequisite**: SPMD 055A

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Supervised volunteer athletic experience which provides students with the opportunity of immediate recognition of lower extremity injuries. Emphasis on advanced techniques in rehabilitation and recognition of moderate to severe injuries.

SPMD 056B 3.0 Units

Sports Medicine-Athletic Training Practicum Spring Sports 2

Prerequisite**: SPMD 056A

Transferable to CSU

Hours: 24-27 lecture, 72-81 lab

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of upper extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Spring sport experience include softball, baseball, men's and women's swimming and diving. Injuries specific to these sports includes most upper extremity injuries.

SPMD 071 Back Care and Injury Management 1.0 Unit

General Education: CSU: Area E

Transferable to CSU Hours: 48-54 lecture

Supervised volunteer athletic experience which provides students with the opportunity for immediate recognition and treatment of moderate level upper extremity sports injuries. Emphasis is on taping techniques and rehabilitation which enables athletes to return to competition. Spring sport experience includes, softball, baseball, mens and womens swimming and diving. Injuries specific to these sports include most upper extremity injuries.

THEA 001 Acting 1

General Education: CSU: Area C1

Transferable to UC/CSU
Hours: 48-54 lecture

Prepares a student to apply basic acting theory to performance and develops the skills of interpretation of drama through acting. Special attention is paid to skills for performance: memorization, stage movement, vocal production, and interpretation of text. (C-ID THTR 151)

THEA 002 Acting 2

3.0 Units

Prerequisite**: THEA 001 General Education: CSU: Area C1 Transferable to UC/CSU

Hours: 48-54 lecture

Continued study of theories and techniques used in preparation for the interpretation of drama through acting. The emphasis will be placed on deepening the understanding of the acting process through character analysis, monologues, and scenes. (C-ID THTR 152)

THEA 003 Stagecraft

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Introduction to the backstage aspects of live theatre and the creation of technical elements. Includes basic concepts of scene design, scene painting techniques, set construction, set movement, prop construction, backstage organization and career possibilities. May include stage management, lighting, and/or sound techniques. Lecture, reading, projects, and hands on practical experience. Students will participate in the planning, design, set construction, and painting of a main college theatrical event as determined by the instructor. Repeatable 1 time. (C-ID THTR 171)

THEA 005 Applied Drama

2.0 Units

Prerequisite**: Audition; THEA 001 and THEA 003 Transferable to UC/CSU

Hours: 16-18 lecture, 48-54 lab

The study and rehearsal of dramatic, comedic and musical works for the stage which includes: classical plays, contemporary dramas and comedies, revues, musicals, and one-acts. Students participate as actors, ensemble members, directors, production designers and/or technicians.

3.0 Units THEA 006 Introduction to Theatre

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1

Transferable to UC/CSU
Hours: 48-54 lecture

Focuses on the relationship of theatre to various cultures throughout history, and on the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Students will also survey different periods, styles and genres of theatre through play reading, discussion, films and viewing and critiquing live theatre, including required attendance of theatre productions. This is an audience oriented, non-performance course. Field trips will be required. (C-ID THTR 111)

THEA 008 Stage Make-Up

3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Students will receive instruction and practice in a lecture/laboratory setting in all phases of makeup specifically designed for theatrical use. (C-ID THTR 175)

THEA 009 Script Analysis

3.0 Units

General Education: IGETC: Area 3A; CSU: Area C1
Transferable to UC/CSU

Hours: 48-54 lecture

Fully explore an in-depth methodology of reading, analyzing and understanding play scripts in a variety of genres and styles intended for production. Investigate techniques used to determine how to read a play for its structure, scrutinizing the playwright's methods of creating theatre through plot, character and imagery, and understanding what scripts "mean" to the professional theatre artist and audience as distinct from other forms of literature. (C-ID THTR 114)

THEA 010 Theatre History 1

3.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1 Transferable to UC/CSU

Hours: 48-54 lecture

The study of the history of theatre from the Origins of Theatre through the 17th Century. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance. *Field trip may be required*.

THEA 011 Theatre History 2

3.0 Units THEA 024

Rehearsal and Performance in Production

4.0 Units

General Education: SCC: Area C; IGETC: Area 3A; CSU: Area C1 Transferable to UC/CSU

Hours: 48-54 lecture

The study of the history of theatre from the 17th Century to contemporary times. The history and development of theatre and drama are studied in relationship to cultural, political and social conditions of the time. Plays are read for analysis of structure, plot, character and historical relevance. Contemporary multicultural theatre will be emphasized.

THEA 013 3.0 Units

Diversity in American Theatre: A Contemporary Focus

General Education: SCC: Area C, E; IGETC: Area 3A, SCC Cross-Cultural; CSU: Area C1, SCC Cross-Cultural

Transferable to UC/CSU
Hours: 48-54 lecture

Introduction to American cultural diversity in theatrical performance, this course will study African-American, Asian-American and Latino(a) theatres, and theatrical representations including TV and film, supplemented by consideration of the social and political conditions impacting these works. Journals, exams, and scene performance or readings and oral reports or critical papers are required.

THEA 020 Introduction to Stage Lighting 3.0 Units

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

The study and execution of stage lighting with an emphasis on equipment, control, color and their relationship to design. This course discusses the methods and materials utilized in designing lighting for the stage. Focus on the practical skills needed to complete a light design project. (C-ID THTR 173)

THEA 021 Introduction to Theatre Design 3.0 Units

Prerequisite **: THEA 003

Course Advisory: ENGL 001 with a minimum grade of C

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

Students will be offered a survey of scenery, lighting, sound, costumes, make up, properties, theatrical equipment and construction techniques through demonstration and laboratory experience. Information will be applicable to all formal theatrical applications. (C-ID THTR 172)

Hours: 30-33.75 lecture, 160-180 lab by arrangement
Instruction and supervised participation in theatre
rehearsal and performance. Instruction will be focused
upon the unique elements and demands of a live stage
production. The production(s) can be: A Comedy, Drama,
Classical and a Musical. Before enrolling in this course,
students are required to audition for a role. Auditions take
place during the second week of the semester. Details
about auditions will be posted in the theater. Repeatable 3
times.

THEA 024A 4.0 Units

Rehearsal and Performance in Production - Comedy

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement Instruction and supervised participation in theatre rehearsal and performance. Instruction will be focused upon the unique elements and demands of comedy. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 024B 4.0 Units

Rehearsal and Performance in Production - Drama

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in theatre rehearsal and performance. More specifically, this class is designed to approach the unique requirements of producing contemporary drama. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 024C 4.0 Units

Rehearsal and Performance in Production - Classical

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in a classical theatre production. Scripts selected may include classical Greek, Roman, medieval, renaissance, and restoration dramas. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 024D 4.0 Units THEA 027B

Rehearsal and Performance in Production - Musical

Transferable to UC/CSU

Hours: 30-33.75 lab, 160-180 lab by arrangement

Instruction and supervised participation in musical theatre rehearsal and performance, including operas, operettas, and musicals. Students will participate as vocalists, musicians, dancers and accompanists. Before enrolling in this course, students are required to audition for a role. Auditions take place during the second week of the semester. Details about auditions will be posted in the theater. (C-ID THTR 191)

THEA 027 3.0 Units

Technical Theatre in Production Show Run Crew

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the technical requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of production responsibilities in any of the following for live show running crews: Properties, Costume, Lighting, Sound, Stage Management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 027A 3.0 Units

Technical Theatre in Production Show Run Crew - Comedy

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements used in a comedy production, such as abstract and whimsical scenic design elements, comic color pallets and special property elements that are designed specifically to 'get a laugh'. Students will gain practical experience in the application of production run responsibilities in any of the following: stage management, house management, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

Technical Theatre in Production Show Run Crew - Drama

3.0 Units

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements as used in a dramatic production such as, realistic and period scenic design elements: architecture as well as natural settings. Students will gain practical experience in the application of production responsibilities in any of the following for live show running crews: Properties, Costume, Lighting, Sound, Stage Management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 027C 3.0 Units

Technical Theatre in Production Show Run Crew - Classical

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements used in a classical production, such as historical and renaissance period design pieces and accurate stage properties of the time. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 027D 3.0 Units

Technical Theatre in Production Show Run Crew - Musical

Transferable to UC/CSU

Hours: 144-162 lab

A practicum course oriented for the student to work with the unique technical requirements used in a musical theatre production, such work can involve use of, scenery that has multiple settings, set pieces that employ special rigging, scenic wagons as well as special live audio and lighting effects. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 032A Fundamentals of Costume Design 3.0 Units

Transferable to UC/CSU

Hours: 16-18 lecture, 96-108 lab

Students will study costume history, design, and basic construction techniques as an introduction to theatrical costuming. Subject material can cover a variety of theatre genres, including: Musical Theatre, Drama, Comedy, and Classical works. Emphasis on illustration and design elements, including story boards and renderings. Students will analyze and examine scripts and research items related to costuming. Students will explore and learn how stock characters and their costumes can support an exaggerated theme and how these characters can have multiple costumes. Repeatable one time. (C-ID THTR 174)

THEA 032B Fundamentals of Costume Design 1.5 Units

Transferable to UC/CSU

Hours: 72-81 lab

This lab course is oriented for the student to work with the Costume requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of Costume responsibilities in any of the following: Assistant Designer, Tailor, Milliner, Cobbler, Cutter, Draper, Dyeing and painting, and alterations. Students will be given an increasing level of responsibility in accordance with their individual abilities. Repeatable 3 times.

THEA 032C 3.0 Units THEA 036 3.0 Units

Fundamentals of Costume Design - Classical

Transferable to UC/CSU

Hours: 16-18 lecture, 96-108 lab

Students will learn how to research costuming from historical Western eras such as: Greek, Roman, Medieval, and the Renaissance. Students will also study ancient Eastern, African, or other historical costumes, depending upon the semester's theatre production. Tailoring, heirloom sewing, theatrical closures, alterations and sewing shortcuts will also be included in instruction. (C-ID THTR 174)

THEA 032D

3.0 Units

Fundamentals of Costume Design - Musical

Transferable to CSU

Hours: 16-18 lecture, 96-108 lab

Students will study musical costume history, design, and basic construction techniques as an introduction to musical theatre costuming. Fabrics and their various uses will be investigated. Students will learn how to design costumes for large musical casts with multiple costume changes. Students will also learn how music and dance influence costume construction. Each student will be given an increasing level of responsibilities in accordance with individual abilities. Successful completion of the costume production process may culminate in the areas of: Co-Costume Designer, Assistant Designer, Cutter, Tailor, First Hand, Stitcher, Milliner, Cobbler, Crafts Artisan, Wardrobe Supervisor or Dresser. Repeatable to a maximum of 12 units, including initial enrollment. (C-ID THTR 174)

THEA 035 3.0 Units

Fundamentals of Musical Theatre: Acting

Transferable to UC/CSU

Hours: 32-36 lecture, 48-54 lab

The study, rehearsal, and class performance of musical works for the stage. Students will participate as performers, singing and moving but with an emphasis on acting.

Advanced Fundamentals of Musical Theatre

Prerequisite: THEA 035 Course Advisory: THEA 001 Hours: 32-36 lecture, 48-54 lab

The advanced study of musical works for the stage. Advanced students will participate as performers, singers, and dancers but also study and participate as directors and choreographers for in class projects.

THEA 040 Acting for the Camera

3.0 Units

Transferable to UC/CSU
Hours: 48-54 lecture

A professional approach to the basics of on-camera acting. Areas of concentration include commercials, public service announcements, corporate videos, news reporting, and feature films. The course includes an in-depth approach to careers in media with concentration on agents, casting directors, resumes, pictures and the necessary tools for building a life as an actor.

THEA 047 Technical Theatre in Production

3.0 Units

Transferable to CSU

Hours: 144-162 lab by arrangement

Oriented for the student to work with the technical requirements used in a production. The type(s) of production can be: Comedy, Drama, Classical and Musical. Students will gain practical experience in the application of production responsibilities in any of the following: Set Construction, Scenic painting, properties, costume, lighting, sound, live show running crews, stage management and house management. Students are given an increasing level of responsibility in accordance with their individual abilities. Repeatable 3 times.

THEA 047A 3.0 Units

Technical Theatre in Production - Comedy

Transferable to UC/CSU

Hours: 144-162 lab

Oriented for the student to work with the unique technical requirements used in a Comedy production, such as abstract and whimsical scenic design elements, comic color pallets and special property elements that are designed specifically to 'get a laugh'. Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities.

THEA 047B 3.0 Units

Technical Theatre in Production - Drama

Transferable to UC/CSU

Hours: 144-162 lab

(C-ID THTR 192)

(C-ID THTR 192)

Oriented for the student to work with the unique technical requirements used in a Drama production, such as, Realistic and period scenic design elements: Architecture as well as natural settings. The student will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities.

THEA 047C

3.0 Units

Technical Theatre in Production - Classical

Transferable to UC/CSU

Hours: 144-162 lab

Oriented for the student to work with the unique technical requirements used in a Classical production, such as Historical and renaissance period design pieces and accurate stage properties of the time. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities.

(C-ID THTR 192)

THEA 047D 3.0 Units

Technical Theatre in Production - Musical

Transferable to UC/CSU

Hours: 144-162 lab

Designed for the student to work with the unique technical requirements used in a Musical Theatre Production: Such work can involve use of scenery that has multiple settings, set pieces that employ special rigging, scenic wagons as well as special live audio and lighting effects. The students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews. Students are given an increasing level of responsibility in accordance with their individual abilities. (C-ID THTR 192)

THEA 055 Advanced Theatre Touring Company 1.0 Unit

Transferable to CSU

Hours: 8-9 lecture, 24-27 lab

Students will prepare and rehearse performances to tour throughout Solano County. Travel is required to various Solano County schools and venues for performances.

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THEA 148A 1.0 Unit THEA 148C 1.0 Unit

Special Advanced Topics in Theatre: For Actors

Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027

Hours: 8-9 lecture, 24-27 lab

Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

THEA 148B 1.0 Unit

Special Advanced Topics in Theatre: Technical Theatre *Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027*

Hours: 8-9 lecture, 24-27 lab

Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

Special Advanced Topics in Theatre: Costuming

Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027

Hours: 8-9 lecture, 24-27 lab

Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

THEA 148D 1.0 Unit

Special Advanced Topics in Theatre: Management and Direction

Course Advisory: THEA 001, THEA 003, THEA 024 and THEA 027

Hours: 8-9 lecture, 24-27 lab

Advanced specialized theatre studies to allow students to better understand their future choices in theatre specializations and to add training to their theatre resume. May involve participation with the current SCC productions.

TUTR - Tutoring

TUTR 050 Tutoring Practicum

0.5 Unit TUTR 500 Supervised Tutoring

0.0 Units

Prerequisite**: Completion with a minimum grade of B in the subject to tutor, instructor recommendation, permission of Tutoring Center personnel after verification of prerequisites, and concurrent assignment as a Tutoring Center or in-class tutor

Transferable to CSU Hours: 8-9 lecture

Supervised practice in tutoring, examines the basics of learning principles, communication, listening skills, effective tutoring techniques and is required for all students who work or volunteer in the Tutoring Center.

Prerequisite**: Recommendation by the course instructor or a counselor or permission of the TUTR 500 instructor of record

Corequisite: concurrent enrollment in course or courses in which tutoring assistance is being requested

Hours: 16-180 lab

Provides students tutorial support with instructional aids and student tutors to develop learning skills that enhance classroom achievement. In addition, Critical Skills for College Success Workshops are offered in many instructional areas. Tutor-supported computer labs are provided for academic use. This is an Open Entry/Open Exit, ungraded course.

TV - Television

3.0 Units

3.0 Units

TV 050 Survey of Broadcasting

General Education: Option A: Area C; CSU: Area D

Transferable to CSU Hours: 48-54 lecture

Introduction to radio and television as mediums of mass communication. The history, development and structure of radio and television are studied, and their impact on society and culture. Students are required to demonstrate knowledge of course content through written tests and projects.

TV 055 Beginning Television Production 3.0 Units

Prerequisite**: TV 050 with a minimum grade of D (may enroll concurrently)

Transferable to CSU Hours: 48-54 lecture

Introductory training in the fundamentals of TV studio production, including producing, directing, scriptwriting, performing, production crewing, set graphics and designing. TV production projects are required.

TV 056 Advanced Television Production 3.0 Units

Prerequisite **: TV 055 with a minimum grade of D or previous television production experience

Transferable to CSU

Hours: 48-54 lecture, 16-18 lab

Presents the fundamentals of on-location and studio production applied to news, public affairs, and dramatic programs. Students are required to produce, direct, write, and crew on TV programs.

TV 060 Television and Film Writing

Course Advisory: ENGL 001 Transferable to CSU Hours: 48-54 lecture

Presents the fundamental principles, techniques and formats of writing for film and TV, including analysis and study of professionally written scripts. Scriptwriting assignments for news, public affairs, editorials, public service announcements, commercials, documentaries, and dramas are required.

TV 061 Advanced Film Writing

3.0 Units

Prerequisite**: TV 060 with a minimum grade of D or presentation of a treatment or well structured story line acceptable to the instructor.

Transferable to CSU

Hours: 48-54 lecture

Script writing for the motion picture, including dramatic structure, scene and sequence structure, and character development. Each student will complete an original script for a full length motion picture.

TV 099 Telecommunications Honors 1.0 to 3.0 Units

Prerequisite**: Completion of 24.0 units of college credit with a minimum GPA of 3.3; a minimum of 5.0 units in the discipline with a minimum grade of B; an ability to work independently; permission of the School Dean based on instructor availability.

Transferable to CSU

Hours: 48-162 lab by arrangement.

Allows the advanced student to work independent of the structured classroom environment in areas of special concern during hours set by arrangement with instructor. Students are required to complete their independent study goals as arranged through contract with their instructor at the beginning of the semester. Students may take this course up to the maximum number of units over multiple semesters.

WATR - Water and Wastewater Technology

WATR 100 Wastewater Treatment I

4.0 Units

4.0 Units

Hours: 64-72 lecture

Study of municipal and industrial wastewater collection and wastewater treatment methods, protection of ground water and receiving waters, and effects of pollutants on receiving waters.

Mathematics of Water and Wastewater Treatment

Hours: 64-72 lecture

WATR 107

A study of calculations - hydraulics, chemicals, solids - used in the design, operation, process control, and maintenance of treatment plants and facilities.

WATR 101 4.0 Units

Basic Chemistry for Water and Wastewater

Hours: 64-72 lecture

Through lecture and demonstrations, the student will develop the ability to analyze and determine if proper levels of purification, content of acidity, alkalinity, hardness, and other water quality criteria have been achieved for water or wastewater treatment.

WATR 108 Water Treatment II

3.0 Units

Prerequisite **: WATR 104

Hours: 48-54 lecture

Advanced topics in the control of ions and disinfecting chemicals in drinking water. In addition it covers the issues of safety, regulation, administration, and maintenance of a water treatment plant. This course will often be taught at an off-campus site. Three hours lecture.

WATR 103 3.0 Units

Biological Principles of Water and Wastewater

Hours: 48-54 lecture

Examine the biological and ecological properties of the bacteria, protozoa, fungi, algae, viruses, and animals whose control is important to the provision of safe drinking water supplies and environmentally safe wastewater. The course emphasizes the microbiology of drinking water, wastewater, and activated sludge, and examines the microbial sampling, analysis, and treatment strategies important in this industry.

WATR 112 Wastewater Treatment III

2.0 Units

Prerequisite**: WATR 105 with a minimum grade of D

Hours: 32-36 lecture

Advanced topics appropriate to a wastewater treatment facility including activated sludge, residual solids management, solids removal from secondary effluents, phosphorus and nitrogen removal, enhanced biological (nutrient) control, wastewater reclamation and recycling, and odor control. This course is often taught off-site.

WATR 104 Water Treatment I

3.0 Units

3.0 Units

Hours: 48-54 lecture

Examine the elementary engineering aspects of the design, operation, process control, and facilities of a plant designed to treat and purify drinking water.

WATR 120 2.0 Units

Distribution Systems Maintenance

Hours: 32-36 lecture

Study of the operation and maintenance of water distribution systems covering the design, construction and the functioning of these systems.

WATR 105 Wastewater Treatment II

3.0 Units

3.0 Units

Prerequisite **: WATR 100 with a minimum grade of D

Hours: 48-54 lecture

Study of the elementary engineering aspects of design, operation process control, and maintenance of wastewater treatment plants and facilities.

WATR 121 Collection Systems Maintenance 2.0 Units

Hours: 32-36 lecture

Study of the operation and maintenance of wastewater collection systems covering the design, construction and functioning of these systems.

WATR 106 Instrumentation and Controls

Hours: 48-54 lecture

Study of pneumatic, mechanical and electronic control systems and components. Includes a basic description and explanation of the operation of instruments and controls for water and wastewater plants. Typical performance characteristics, accuracy, and applications of instruments are studied.

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WATR - Water and Wastewater Technology

2.5 Units

WATR 125 Water Conservation

Hours: 40-45 lecture

Water conservation includes the study of methods to reduce water use, loss, and waste, and methods to increase water efficiency in an effort to minimize the amount of water used to accomplish a function or task. This course combines subject matter lectures and planned learning experiences so students learn the principles involved in the conservation and efficient use of water resources for economic, environmental, and regulatory purposes. Students will learn about water supply and demand; utility water demand characteristics and water rates; residential, commercial, and landscape water use measurements; water management planning, and how to perform various types of water audits.

WATR 126 Pumps and Motors Units

Hours: 48-54 lecture.

This course examines the design and operation of pumps and motors with special emphasis on the types of pumps used in the water and wastewater industries.

3.0

WELD - Welding

WELD 130

3.0 Units

3.0 Units

Beginning Shielded Metal Arc Welding (Stick 7018/ 6010 Basic)

Hours: 32-36 lecture, 48-54 lab

Builds arc welding skills with an emphasis on flat and horizontal welding. Course activities prepare students for welding certification and advanced welding classes. Welding applications and parameters are discussed and applied throughout the class developing the student's ability to problem solve and develop welding skills.

WELD 131 3.0 Units

Intermediate Shielded Metal Arc Welding (Stick Welding)

Prerequisite**: WELD 130 Hours: 32-36 lecture, 48-54 lab

Advances arc welding skills with an emphasis on vertical and overhead welding. Course activities prepare students for welding certification and employment. Welding applications and parameters are discussed and applied throughout the class developing the students ability to problem solve, develop and enhance welding skills.

WELD 132 Advanced SMAW (Stick Welding) 3.0 Units

Prerequisite **: WELD 131 Hours: 32-36 lecture, 48-54 lab

Advances arc welding skills with an emphasis on vertical and overhead welding. Course activities prepare students for welding certification and employment in the metal trades. Welding applications and parameters are discussed and applied throughout the class developing the students ability to problem solve and develop welding skills. This course is designed to enhance welding skills and employability in the field of structural iron working. This course also prepares the student for the American Welding Society plate code D1.1 unlimited thickness in all position certification.

WELD 135 MIG (GMAW) Welding

3.0 Units

Prerequisite **: WELD 130 Hours: 32-36 lecture, 48-54 lab

Advances the skills previously taught in WELD 130 and moves the student forward in a career of manufacturing and facilities maintenance. This course covers 2F, 3F and 4G positions (vertical and overhead positions). This course also covers Aluminum spool guns and 35 pound Stainless steel 304 and 308 wires.

WELD 136 Beginning Structural Steel and Flux Core Arc Weld (FCAW)

Prerequisite**: WELD 130 Hours: 32-36 lecture, 48-54 lab

An emphasis on developing skills on structural steel and FCAW practices. Related instruction will include ferrous metal identification and welding characteristics, Flux core welding applications and variable, dual shield inert shielding gases and mixtures, troubleshoot FCAW equipment and welds completed in the flat and horizontal positions (1G and 2G).

WELD 145

3.0 Units

Intermediate Pipe Welding 7018 STK (SMAW)

Prerequisite**: WELD 130 Hours: 32-36 lecture, 48-54 lab

Pipe Welding code, pipe classification and identification with an emphasis on API 1104 certification. Completion of the class does not guarantee certification unless welding procedure qualification tests are passed.

WELD 175 CNC Plasma (Cutting Automation) 3.0 Units

Hours: 32-36 lecture, 48-54 lab

Educates students on automated plasma cutting skills and processes and related CNC metal working equipment.

WELD 500 Independent Study

0.0 Units

Prerequisite **: Permission of the instructor Hours by arrangement as required

Assists with vocational placement for advanced welding students who have sufficient background in welding fundamentals to pursue more independent study in the area of their choice. Each student works by arrangement with the instructor on an outlined program of study, to achieve independent objectives. This is an Open Entry/ Open Exit course.

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