"With help and inspiration from College of Marin instructors, my interest blossomed."

Christie Sullivan, COM Graduate
Transferred to UC Berkeley
COURSE DESCRIPTIONS

Information Contained Within Course Descriptions

The first part of the course description contains the course discipline abbreviation, number, title, and the student unit value of the course such as ENGL 150. Reading and Composition 1A. (3). It also contains prerequisites, corequisites, advisories, or other limitations followed by the hours required for the course.

The second part of the description is a brief explanation of the material being covered in the course. It also contains information regarding how many times a course may be taken and if it is offered in a distance learning format (television, videocassette, internet or teleconference).

The last part of the description includes Associate degree and transfer information. Courses certified for a California Articulation Number will have the CAN number listed.

For further information regarding transfer or degree requirements, please refer to the Graduation and Degree Requirements Section and the Transfer Information Section of this catalog.

Student Units and Hours

Credit for courses offered at the College of Marin is awarded in semester units. The value of the course is computed on the basis of one unit for each lecture hour per week for one semester (together with two hours of preparation outside class) or three hours of laboratory work per week for one semester. Courses meeting for less than the full semester will require an equivalent number of hours prorated on a per week basis.

Prerequisites, Corequisites, and Advisories

Prerequisites

A prerequisite is a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a particular course or program. The College requires students to complete prerequisite courses with a grade of "C", "CR", or higher prior to registering in the course requiring the prerequisites.

Examples of courses that may require prerequisites:

1. Courses for which specific prerequisites have been justified by content review, the appropriate level of scrutiny and any other validation procedures required by law (Title 5, 55201 a-f).
2. Sequential courses in a degree-applicable program.
3. Courses requiring a prerequisite to transfer to a four-year college.
4. Courses requiring preparation to protect health and safety.

5. Technical or vocational courses or programs that require special preparation.

Equivalent Course Work/Prerequisite Challenges

Some prerequisites may be satisfied by equivalent course work from an accredited institution other than College of Marin. Students also have the right to challenge prerequisites on certain, specified grounds and procedures. Please contact a counselor for more information.

Corequisites

A corequisite is a condition of enrollment consisting of a course that a student is required to take simultaneously in order to enroll in another course. Courses that may require corequisites include courses that are part of a closely related lecture-laboratory pairing requiring concurrent enrollment.

Advisories

An advisory is a condition that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Other Limitations

Other limitations on enrollment may include:

1. Courses that require public performance or competition.
2. Blocks of courses for which enrollment is limited in order to create a cohort of students.

Grading Systems

Different grading systems are used for different courses. Some will be limited to letter grades, some will be limited to credit/no credit grading and the remainder will be optional letter or credit/no credit grades, upon agreement between the instructor and student. For some disciplines, grading is indicated in the catalog before the discipline’s course descriptions. In general, courses required for a student’s four-year major should be taken on a letter grade basis.

Course Numbering System

Courses in this catalog and in the schedule of classes are numbered in the following sequence:

0-99 Preparatory/remedial courses and courses that do not apply to the major. Courses numbered 0-99 are not applicable to the Associate degree.

100-199 Courses taken during the first year of academic work or the first 30 units of course work. Courses numbered 100-199 are applicable to the Associate degree.

299-299 Courses taken during the second year of academic work or the second 30 units of course work. Courses numbered 200-299 are applicable to the Associate degree.
ADMINISTRATION OF JUSTICE COURSES

AJ 39  Selected Topics (Nondegree Applicable)
(1/2-6 units)(Please see Selected Topics category.)

AJ 110  Introduction to the Administration of Justice
(3 units)(No prerequisite. Three lecture hours weekly.)
The history and philosophy of justice as it evolved throughout the world; in-depth study of the American system and the various subsystems; roles and role expectations of criminal justice agents in their interrelationships in society; concepts of crime causation, punishments and rehabilitation; ethics, education, and training for professionalism in the social system. (CSU/UC)

AJ 111  Criminal Law
(3 units)(No prerequisite. Three lecture hours weekly.)
Historical development, philosophy of law and constitutional provisions; definitions, classifications of crimes and their applications to the system of administration of justice; legal research, review of case law, methodology, and concepts of law as a social force. Explores crimes against persons, property, and the state as a social, religious, and historical ideology. (CSU/UC)

AJ 113  Criminal Procedures
(3 units)(No prerequisite. Three lecture hours weekly.)
Legal processes from prearrest, arrest through trial, sentencing and correctional procedures; a review of the history of case and common law; conceptual interpretations of law as reflected in court decisions; study of case law methodology and case research as the decisions impact upon the procedures of the justice system. (CSU)

AJ 116  Juvenile Law and Procedure
(3 units)(No prerequisite. Three lecture hours weekly.)
Techniques of handling juvenile offenders and victims; prevention and repression of delinquency; diagnosis and referral; organization of community resources. Juvenile law and juvenile court procedures. (CSU)

AJ 118  Community and Human Relations
(3 units)(No prerequisite. Three lecture hours weekly.)
The relationship of criminal justice agents and the community; causal and symptomatic aspects of community understanding; lack of cooperation and mistrust; study of behavioral causes; ways to develop and maintain amicable relationships. (CSU/UC)

AJ 139  Selected Topics
(1/2-6 units)(Please see Selected Topics category.)
(CSU w/limit)

AJ 204  Crime and Delinquency
(3 units)(No prerequisite. Can be taken for credit as Administration of Justice 204 or Sociology 184. However, credit will be awarded for only one course. Three lecture hours weekly.)
An introduction to the major theoretical explanations of criminal behavior; social and economic factors which contribute to crime; major typologies of criminal behavior; criminal justice systems and research; courts, probation and parole; police and other institutions. The course will take a sociological perspective and integrate theories from sociology, criminology, and criminal justice. (CSU/UC)

AJ 212  Introduction to Evidence
(3 units)(No prerequisite. Three lecture hours weekly.)
Origin, development, philosophy, and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizures; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights, and case studies viewed from a conceptual level. (CSU)

AJ 215  Introduction to Investigation
(3 units)(No prerequisite. Three lecture hours weekly.)
Fundamentals of investigation; techniques of crime scene search and recording; collection and preservation of physical evidence; modus operandi processes; sources of information; interview and interrogation; follow-up investigation. (CSU)

AJ 220  Vice, Narcotics, and Organized Crime
(3 units)(No prerequisite. Can be taken for credit as Administration of Justice 220 or Sociology 220. However, credit will be awarded for only one course. Three lecture hours weekly.)
This course examines the relationship between organized crime and the community. It will cover the impact of organized crime, history of organized crime, relationship to the social structure, symptoms of organized crime i.e. corruption, dysfunctional behavior, violence, and attempts to control organized crime and the role of the legal system. In addition, vice and trade in narcotics will be discussed. Modern organized crime groups both national and international will be highlighted. Exposure to sociological theory and concepts from criminal justice will be integrated into the course. (CSU)

AJ 249  Directed Study
(1-3 units)(No prerequisite.)
This course is designed to provide (at irregular intervals) advanced training and investigation in-depth of topics suggested and required by P.O.S.T. Individual topics will be in lecture format and run from 8 to 80 hours, in one day to ten-week periods. Examples of possible topics: Advanced Officer, Advanced Traffic Investigation, Narcotics, Auto Theft, Explosives and Explosive Devices, Fingerprinting, Police Photography, and Domestic Violence. This course may be taken more than once for credit, provided the same topic is not repeated. (CSU w/limit)
AMERICAN SIGN LANGUAGE COURSES

ASL 101 Elementary Sign Language I
(5 units)(No prerequisite. Four lecture and three laboratory hours weekly.)
This is an introductory course that emphasizes visual readiness skills for recognition and expression of appropriate facial expression and body movements, response to commands, and learning how to visualize the environment. Communicative functions, vocabulary, grammar, and cultural aspects of the deaf community will be introduced and studied. (CSU/UC)
AA/AS Area C, CSU Area C-2, UC Language other than English

ASL 102 Elementary Sign Language II
(5 units)(Prerequisite: American Sign Language 101. Four lecture and three laboratory hours weekly.)
This course is a continuation of ASL 101; exchanging information, identifying others, making requests, giving reasons, options, simple directions, and asking for clarification. Discussions revolve around classes, the campus, home, work and transportation, physical descriptions of people and objects, general conversation skills, visual perception and specific specialization skills, and the continuation of the cultural study of the deaf community. (CSU)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

ASL 110 History and Culture of Deaf People in America
(3 units)(No prerequisite. Three lecture hours weekly.)
This course identifies basic anthropological approaches toward the examination and study of minority groups in general, with specific emphasis on American Deaf culture as a minority group. There will be an introductory comparison of the structures of visual and spoken languages and a presentation of the normative system of laws in America that has developed for deaf Americans. (CSU)
AA/AS Areas C & G, CSU Area C-2 or D-1

ASL 139 Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

ASL 203 Intermediate Sign Language III
(5 units)(Prerequisite: American Sign Language 101, 102. Four lecture and three laboratory hours weekly.)
This course expands upon the conversational and grammatical functions learned at the prior levels. Skills to be learned include ability to describe sophisticated and philosophical subjects, exchanging personal life information, sharing interesting facts or an embarrassing moment, and learning the culturally appropriate ways to negotiate in a signing environment. (CSU)
AA/AS Area C, CSU Area C-2

ASL 204 Intermediate Sign Language IV
(4 units)(Prerequisite: American Sign Language 203. Four lecture hours weekly.)
This course strives for a higher level of conversation and narration skills. Topics include describing problems at home, work and school, expressing opinions and feelings and argumentation; i.e., how to disagree with someone and potentially change that person’s mind. (CSU/UC)
AA/AS Area C

ASL 249 Directed Study
(1-3 units)(Please see Directed Study category.)
(CSU w/limit)

ANTHROPOLOGY COURSES

ANTH 39 Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

ANTH 101 Introduction to Physical/Biological Anthropology
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is the study of evolutionary theory as a unifying theory that encompasses human variation and human evolution. The course covers modern evolutionary theory and its history, genetics, and the human genome. Students will learn about primates including behavior, anatomy, and features of the skeletal system. Instructors will cover selected topics in forensic analysis, archaeological theory and methodology, scientific method, and an overview of the most significant fossil sites that relate to human evolution. The field is changing on a daily basis in regards to new information being uncovered pertaining to our distant past and the progress being made in the study of the human genome. Primates in many areas of the world are under threat from human populations and efforts to establish protected areas are meeting with mixed success. The department has an extensive collection of fossil casts that allows students the opportunity to actually see them in person rather than relying solely upon photographs or descriptions. Some instructors may require field trips to local zoos, museums or lectures. (CSU/UC)
AA/AS Area A, CSU Area B-2, IGETC Area 5B, CAN ANTH 2

ANTH 101L Physical/Biological Anthropology Laboratory
(1 unit)(Prerequisite: Anthropology 101 or concurrent enrollment. Three laboratory hours weekly.)
Laboratory and related exercises selected from the fields of: genetics, the human genome, human variability, medical genetics, nonhuman primates, human dental and skeletal anatomy, forensics, primate behavior, reconstruction, fossil hominids, the scientific method including probability and research design. The nature of the course requires students to solve problems, to observe, to take a hands-on approach to the subject matter. This course is supplemental to Anthropology 101. It is designed to
cover in greater detail areas which are taught in Physical/Biological Anthropology and which require the active participation of students in learning how to accomplish specific tasks related to the above areas. Field trips may be included. (CSU/UC)

**ANTH 102 Introduction to Cultural Anthropology**  
(3 units)(No prerequisite. Three lecture hours weekly.)

Cultural anthropology is the study of human behavior from a cross-cultural perspective. An emphasis will be placed upon non-Western societies. Areas that may be covered are social organization, belief systems and ritual behavior, socialization, psychological anthropology, economic organization, social stratification, theory, and other selected topics. The use of films, slides, and videotapes allows students to become acquainted with cultures and lifestyles that are distinct from contemporary Western society. A goal of the course is to create a greater degree of cross-cultural awareness by attempting to promote an understanding of and appreciation for the richness and diversity of human culture. Can also be offered in a distance learning format. (CSU/UC)

**ANTH 103 Globalization and Peoples and Cultures of the World**  
(3 units)(No prerequisite. Three lecture hours weekly.)

This course is designed to explore what is happening to cultural groups from diverse regions around the world. The focus will be upon cultural change, impact of technology, external and regional pressures and how they impact local groups. The role of women, children, ethnic/racial/religious violence, and class conflict will be examined. Poverty, child/female trafficking, slavery, child soldiers, disease, forced migration, famine and genocide will be covered. The use of police, death squads, military, torture and death squads are common in many of these areas. The role of the World Bank, World Trade Organization, Multi-Nationals, local and regional elites, as they relate to the lives of specific ethnic groups will be presented. Theory from ethnology and ethnography will be used as a basis for analysis. (CSU/UC)

**ANTH 104 Native American Cultures**  
(3 units)(No prerequisite. Three lecture hours weekly.)

This survey course of Native Americans will examine early examples of the inhabitation of the western hemisphere. In addition, the historical record will be used to illustrate contact between indigenous peoples and the outside world and the results of that contact. The present conditions of native peoples in the hemisphere will be illustrated. Traditional cultural systems, social organization, religious beliefs, art, and economy will be discussed for selected cultural groups. Contemporary issues of land rights, tribal independence, natural resource rights, and social problems will be examined. (CSU/UC)

**ANTH 110 Introduction to Archaeology and Prehistory**  
(3 units)(No prerequisite. Three lecture hours weekly.)

This course includes the methods of recovery, analysis and interpretation of material culture, current research questions, current controversies, frauds of the past, ethical problems confronting the archaeologist and some of the spectacular discoveries. Some of the questions to be explored include the origin of art and writing, the evolution of tool making, how and why agriculture began, why civilizations rose and fell, and who settled the Americas. (CSU/UC)

**ANTH 139 Selected Topics**  
(1 1/2-6 units)(Please see Selected Topics category.)  
(CSU/UC w/limit)

**ANTH 204 Native American Cultures**  
(3 units)(No prerequisite. Three lecture hours weekly.)

This survey course of Native Americans will examine early examples of the inhabitation of the western hemisphere. In addition, the historical record will be used to illustrate contact between indigenous peoples and the outside world and the results of that contact. The present conditions of native peoples in the hemisphere will be illustrated. Traditional cultural systems, social organization, religious beliefs, art, and economy will be discussed for selected cultural groups. Contemporary issues of land rights, tribal independence, natural resource rights, and social problems will be examined. (CSU/UC)

**ANTH 205 Field Anthropology**  
(1 1/2 units)(No prerequisite. One-half lecture and three laboratory hours weekly or variable schedule dependent on specific field trip focus.)

Lectures about and field trips to specific locations within the Bay Area, California, out of state, and foreign countries, the cultural and geographical focus to be determined by each instructor. In the past, museums, archeological sites, and cultural settings and events have been the focus of the course. The Bay Area has numerous subcultures with events scheduled year round, along with museums and settings that lend themselves to field trips and observations. Subculture folk festivals, folk arts, and ethnomusicology are examples of places that would be suitable for a course of this nature. Archeological sites and prehistoric art along with Native American subcultures have been visited in prior years. (CSU)

**ANTH 206 Archaeological Field and Laboratory Methods**  
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

This course is designed to acquaint the student with archaeological field techniques, as well as the laboratory skills necessary for interpreting and preserving the excavated material. Students will perform experiments and exercises using the scientific method. When available, excavation will involve threatened (salvage) sites. Possible topics to be covered will include site survey, flintknapping, and lithic, faunal, shell, and ceramic analysis. May be taken four times for credit. (CSU)
ANTH 208  Magic, Folklore, and Healing 
(3 units)(No prerequisite. Three lecture hours weekly.) 
This course is a general survey of what anthropologists have learned about belief systems and folklore from a cross-cultural perspective. It will ask: What do we know about the origins of belief systems? Why do people in most societies believe in unseen spirits and powers? How do people use supernatural or special powers to gain control over their own lives or the lives of others? What is the subdiscipline of folklore and how does it relate to the subject matter and to anthropology as a whole? The course will use examples drawn from a wide variety of cultural areas. (CSU/UC) 

ANTH 215  Native Americans of California 
(3 units)(No prerequisite. Three lecture hours weekly.) 
The study of California Native Americans will include the prehistoric period (as seen through archaeology), contact with explorers, the mission period, post-mission, and contemporary issues. Major linguistic groups will be discussed in terms of environmental setting, subsistence, technology, political organization, social structure, religion, ceremonial life, art, and mythology. May be taken twice for credit. (CSU/UC) AA/AS Areas B & G 

ANTH 249  Directed Study 
(1-3 units)(Please see Directed Study category.) (CSU/UC w/limit) 

ARCHITECTURE COURSES 

ARCH 39  Selected Topics (Nondegree Applicable) 
(½-6 units)(Please see Selected Topics category.) 

ARCH 100  History of Architecture I 
(3 units)(No prerequisite. Three lecture hours weekly) 
This class traces the development of architecture and cities throughout the world from the earliest permanent settlements at the end of the Ice Age to the 1100’s C.E. Emphasis is on the evolution of architectural ideas and the connection between architecture and culture. Can also be offered in a distance learning format. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A 

ARCH 101  History of Architecture II 
(3 units)(No prerequisite. Three lecture hours weekly) 
This class traces the development of architecture and cities throughout the world from the 1100’s C.E. to the end of the nineteenth century. Emphasis is on the evolution of architectural ideas and the connection between architecture and culture. Can also be offered in a distance learning format. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A 

ARCH 102  History of Architecture III 
(3 units)(No prerequisite. Three lecture hours weekly) 
This class traces the development of architecture and cities throughout the world during the twentieth century. Emphasis is on the evolution of architectural ideas and the connection between architecture and culture. Can also be offered in a distance learning format. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A 

ARCH 107  Cutting-Edge Architecture Field Trips 
(3 units)(No prerequisite. Seven field days, 48 hours lecture. Based on initial trip of one week per 48 hour lecture. Subsequent trips will vary.) 
This course is for anyone interested in cutting-edge design, and particularly for architecture, interior, landscape and set design students working in this 21st century. We will visit inspiring examples of the latest in architectural design in various cities such as Los Angeles, Dallas and Berlin. We will also visit the seminal masterpieces that lead up to these works. By actually visiting these sites, students will gain crucial understandings of: 1. how architects approach a site, 2. how they satisfy programmatic requirements in inventive ways, 3. what forms they use and why, 4. how it feels to be in and moving through the created spaces, 5. what are the conceptual underpinnings of projects, and 6. how the totality of design works in such architect designed elements as architecture and landscape design. These intensive field trips will include lectures, visits to architectural sites, drawing, discussion, and personal exploration. (CSU) 

ARCH 110  Beginning Architectural Design 
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly) 
This design course explores fundamental principles and issues of architectural design through the use of abstract design projects. Students interested in architecture, interior design, landscape design, engineering, building construction, gallery or theatre design, sculpture and other fine arts create their own design solutions, moving from beginning sketches, through development, to final models. Students learn to develop architectural “vocabulary” and thinking in a group studio environment, and address formal, symbolic and contextual concepts of architecture. (CSU/UC) 

ARCH 111  Intermediate Architectural Design 
(4 units)(Prerequisites: Architecture 110 and 120. Three lecture and three laboratory hours weekly) 
This design course explores local urban and rural architectural design projects through the use of lectures, design projects, site visits, individual and group critiques, model building and drawings. Human needs, social factors, public/private issues, contexture, historic precedent, and aesthetic perception will be emphasized. Students will learn about design methodology, site and program analysis and presentation techniques. Students further address formal, symbolic and contextual issues of architecture. (CSU)
ARCH 120  Beginning Architectural Drafting
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)

This course will introduce students interested in interior design, architecture, engineering, building construction, landscape architecture, and other design related fields to the fundamentals of architectural and freehand drawing. Students will learn hard-line drafting skills and architectural conventions. They will learn the appropriate applications for the following architectural drawings: plan, section, elevation, paralline, and perspective. Emphasis will be placed on the importance of drawings in the communication between designers, clients and builders, and on the relationship between three-dimensional form and its two-dimensional representation on paper. (CSU)

ARCH 121  Intermediate Architectural Drafting
(4 units)(Prerequisite: Architecture 120. Advisories: Architecture 110 and 130. May be taken concurrently. Three lecture and three laboratory hours weekly.)

A practical intermediate course in architectural drafting. Course involves applying basic drafting and lettering techniques, architectural projections, detail and working drawings, and the basic understanding of wood frame construction to the solution of a variety of practical architectural and construction problems. Portfolio of blueprints required at the end of the semester. (CSU)

ARCH 127  Architectural Rendering: Techniques of Presentation
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)

Students in this course learn how to make beautiful and convincing drawings and models of their designs for presentation to clients, design review boards, peers, publications and competitions, among other uses such as their own study needs. Students interested in architecture, interior design, landscape design, engineering, building construction, gallery and theater design and other fine arts will all enjoy and benefit from this course. Working from their own designs or from those of others, students will learn rendering techniques including the use of graphite, ink, watercolor, prismacolor and computer techniques. They will study how to make presentations specifically designed for the projects they are presenting, including where to take perspective views to best show off their projects, appropriate use of graphics, color, layout and scale, and what type of model to present if relevant. Students will learn how to work both individually and in teams, simulating the office environment. (CSU)

ARCH 130  Introduction to Architecture and Environmental Design
(3 units)(No prerequisite. Three lecture hours weekly.)

This course provides a foundation for future architecture, interior design, landscape architecture, and city planning courses. It explores the basic elements of architecture and the built environment including form, organizational principles, context, materials, and the sensory qualities of design. The design process and professional practice are also addressed. Emphasis is placed on the process of developing one's personal approach to design, the ways in which people experience architecture, and the relationship of architecture to society. (CSU/UC)

ARCH 131  New Architecture on Campus
(3 units)(No prerequisite. Three lecture hours weekly.)

Students in this class will learn the architectural history of the College of Marin campus and of the current Capital Improvement Program. They will also learn the architectural modernization processes involved in carrying out the CIP and will follow the ongoing progress of design and construction. Emphasis will be placed on the sometimes conflicting needs of various stakeholder groups and the impact of these needs on the physical design of the campus. In addition, students will research the impact of the plethora of governmental requirements on the design and construction of new buildings on the College of Marin campus. (CSU)

AA/AS Area

ARCH 139  Selected Topics
(½-6 units)(Please see Selected Topics category.)
(CSU w/limit)

ARCH 140  2-D Computer Graphics for Architecture
(4 units)(No prerequisite. Advisory: Architecture 120. Three lecture and three laboratory hours weekly.)

Students will learn the basic skills needed to produce 2-D presentation and construction drawings for architecture and similar disciplines using the computer. Emphasis will be placed on using software tools to create drawings that effectively communicate the intention of the designer to clients and builders; on organizing information within the drawing environment to simplify the production and revision of drawings; and on building the skills necessary to produce drawings efficiently. The class will be taught using Vectorworks software. The basic concepts and skills apply generally to all CAD software applications. (CSU)
ARCH 141  3-D Computer Graphics for Architecture
(4 units) (Prerequisite: Arch 140. Three lecture and three laboratory hours weekly.)
Students will learn the skills needed to produce three-dimensional design and presentation drawings for architecture and similar disciplines using the computer. Emphasis will be placed on using software tools to create drawings that effectively communicate the intention of the designer to clients and others; on organizing information within the drawing environment to simplify the production and revision of drawings; and on building the skills necessary to produce drawings efficiently. The class will be taught using Vectorworks and other 3-D software; however, the basic concepts and skills apply generally to all 3-D software applications. (CSU)

ARCH 150A  Green/Sustainable Architecture
(3 units) (No prerequisite. Three lecture hours weekly.)
In this course, students will learn the fundamentals of green/sustainable architecture. Through lectures and discussion, the class will consider a wide range of sustainability issues including the history of environmental degradation and the rise of sustainability as a discipline. We will study energy conservation and generation, reuse and recycling, renewable materials, and a range of planning and transportation considerations in terms of their impact on the environment.
A companion class, Architecture 150B, which may be taken concurrently, is a studio class designed to give students hands-on experience in green/sustainable design through a series of architectural design projects. (CSU)

ARCH 150B  Green/Sustainable Architecture
(1 unit) (Prerequisite/Corequisite: Architecture 150A. Three laboratory hours weekly.)
Intended as a companion course to Architecture 150A, students in Architecture 150B will learn architectural design with an emphasis on environmentally friendly and sustainable principles. The class will emphasize the need to gather, analyze and prioritize the multiplicity of needs that a successful design must meet. Students will learn techniques for creating original and thoughtful solutions to the design problem they have defined, to refine and complete these designs and to present their work in both written and graphic form. Teaching will include individual one-on-one discussions with the instructors, group critiques, and individual and group presentations. (CSU)

ARCH 220  Advanced Architectural Drafting
(4 units) (Prerequisites: Architecture 120 and 121. Advisories: Architecture 110 and 130. May be taken concurrently. Three lecture and three laboratory hours weekly.)
A practical advanced course in architectural drafting. Course involves the design of wood frame structures and development of working drawings. Portfolio of working drawings required at the end of the semester. May be taken four times for credit. (CSU)

ARCH 249  Directed Study
(1-3 units) (Please see Directed Study category.) (CSU w/limit)

ART COURSES
Note: There may be field trips, as part of the class curriculum, in any of the art classes that are listed in this catalog.

ART 39  Selected Topics (Nondegree Applicable)
(½-6 units) (Please see Selected Topics category.)

ART 101  History of Ancient Art
(3 units) (No prerequisite. Three lecture hours weekly.)
This is a survey of ancient art and visual culture, including: Prehistoric, Near Eastern, Egyptian, Aegean, Greek, Etruscan, Roman, Early Christian, and Byzantine. (CSU/UC)
AA/AS Area C, CSU Area C-1, IGETC Area 3A, CAN ART SEQ A = Art 101+102+103

ART 102  History of European Art
(3 units) (No prerequisite. Three lecture hours weekly.)
This class surveys the visual creations of a variety of European cultures from 1100 to the mid-nineteenth century. Emphasis will be placed on enhancing the student’s ability to observe and describe visual works, and to understand them in their social and historical context. (CSU/UC)
AA/AS Area C, CSU Area C-1, IGETC Area 3A, CAN ART SEQ A = Art 101+102+103

ART 103  History of Modern Art
(3 units) (No prerequisite. Three lecture hours weekly.)
This is a survey of art and visual culture from the mid-nineteenth century to the present. (For focus on recent art, see ART 105.) Emphasis will be placed on enhancing the student’s ability to observe and describe visual works, and to understand them in their social and historical context. (CSU/UC)
AA/AS Area C, CSU Area C-1, IGETC Area 3A, CAN ART SEQ A = Art 101+102+103

ART 104  History of Asian Art
(3 units) (No prerequisite. Three lecture hours weekly.)
This course is a comparative study of art and visual culture in the Far East, including India, China, Japan, Korea, and Southeast Asia. Visual expression will be considered in relation to its social and religious contexts. (CSU/UC)
AA/AS Area C, CSU Area C-1, IGETC Area 3A

ART 105  Contemporary Art
(3 units) (No prerequisite. Three lecture hours weekly.)
This course covers art since 1945, focusing on art of the last 30 years. Emphasis is on new concepts and techniques by a diverse selection of artists. The visual and social issues raised by contemporary art will be considered. There will be several field trips to art galleries or other points of interest. (CSU/UC)
AA/AS Area C, CSU Area C-1, IGETC Area 3A
ART 106  History of Women Artists

(3 units)(No prerequisite. Three lecture hours weekly.)
This class introduces visual work by women of diverse ethnic and class backgrounds. A variety of media will be covered, from past art history as well as from contemporary art. Students will become aware of the social circumstances in which the work was produced. The course will include field trips. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A

ART 107  History of American Art

(3 units)(No prerequisite. Three lecture hours weekly.)
This class surveys American art and visual culture, including work by a diverse selection of artists. Material in several media will be presented through slides, discussion, and field trips. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A

ART 108  Arts of the Americas

(3 units)(No prerequisite. Can be taken for credit as Art 108, Ethnic Studies 108, or Humanities 108. However, credit will be awarded for only one course. Three lecture hours weekly.)
A survey of the arts and architecture of the Americas—North, Central, Caribbean, and South America—focusing on a selection of works from the major Pre-Columbian, Spanish Colonial, and modern cultures. Art of the United States will focus on works from the culturally diverse peoples of the Bay Area. (CSU/UC) AA/AS Area C & G, CSU Area C-1, IGETC Area 3A

ART 109  Gallery Seminar in Art

(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)
Seminar in art history based on art available in museums, galleries, and collections. This course may be conducted at any site where original art objects are available for study and discussion. It includes assigned reading, lectures, and discussion trips to study art. Seminar discussion and presentations follow field trips. Content and areas of concentration may vary depending on locations and availability of art. (CSU)

ART 110  2-D Art Fundamentals

(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
An introductory level studio course that encourages students to express themselves by using and understanding the elements of 2-D art: line, shape, texture, value, color, perspective, and space. Principles of composition such as balance, repetition, variation, and proportion will be explored using a wide variety of media that may include: ink, pencil, charcoal, painting, collage, printmaking, papier-mache, and found material mixed media. This course is required for art majors and highly recommended for all art students. (CSU/UC) CSU Area C-1, CAN ART 14

ART 111  3-D Art Fundamentals

(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
An introductory level studio course that encourages students to express themselves by using and understanding the elements of 3-D art: line, plane, volume, mass, surface treatment, light and shadow. Principles of composition such as balance, repetition, variation, and proportion will be explored using a wide variety of materials that may include wire, cardboard, plaster, clay, papier-mache, and mixed media. This course is required for art majors and highly recommended for all art students. (CSU/UC) CSU Area C-1, CAN ART 16

ART 112  Interior Design I

(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
An introductory course in the theory and practice of interior design to acquaint the student with contemporary design, architecture, and furniture; color theory and application; basic residential construction methods and materials; surface treatment (walls, floors, windows, etc.); the use of drafting tools and methods; and learning to draw simple plans. Classes may include field trips and guest lecturers that relate to various aspects of interior design. May be taken three times for credit. (CSU) CSU Area C-1

ART 113  Interior Design II

(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
Covers period design and decorations from the styles of antiquity through the Victorian era. Extensive reading is required to cover the historic evolution of interior design in the Western world. A number of tests, as well as oral, visual, and written projects, are given. This course may also include field trips that relate to history and interior design. May be taken three times for credit. (CSU)

ART 114  Jewelry Design I

(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
Design and creation of jewelry utilizing basic construction and casting techniques. Emphasis is on basic skill development. May be taken four times for credit. (CSU) CSU Area C-1

ART 115  Jewelry Design II

(4 units)(Prerequisite: Art 116. Three lecture and three laboratory hours weekly.)
Advanced design and creation of jewelry. Emphasis is on perfecting skills. Projects include techniques that may include hinges and connections, advanced casting, die forming, and RT stamping. May be taken four times for credit. (CSU)
ART 118  Art Gallery Design and Management I  
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)  
Introduction to art gallery management to include selection of art works, publicity for art gallery, design of gallery furniture and exhibits, and installation of exhibits. Field trips to other educational and commercial galleries and museums. Preparation of individual portfolios. (CSU)  
CSU Area C-1

ART 119  Art Gallery Design and Management II  
(4 units)(Prerequisite: Art 118. Three lecture and three laboratory hours weekly.)  
An environmental design class covering materials, techniques, aims, elements and principles of environmental display, spatial and visual interrelationships of displayed materials, and gallery construction. This course will cover both theory and practice at the Kentfield Campus Fine Arts Gallery. (CSU)

ART 128  Art Field Trips  
(1-4 units)(No prerequisite. Can be taken for credit as Art 128 or Ethnic Studies 128 or Humanities 128. However, credit will be awarded for only one discipline. Three-quarter lecture and three-quarter laboratory hours weekly for one unit, one and one-half lecture and one and one-half laboratory hours weekly for two units, two and one-quarter lecture and two and one-quarter laboratory hours weekly for three units, and three lecture and three laboratory hours weekly for four units.)  
A complement to art history and studio art courses, this course allows students to experience the art and architecture of sites like New York, Mexico City, and Rome first-hand. Pre-trip lectures will set up background for an intensive field trip(s) that may include visits to museums, galleries, libraries, artists' studios, and to architectural and archeological sites where lecture, discussion, and personal exploration will take place. May be used to bring students to a major media-specific conference. Each discipline may be taken four times for credit. (CSU)

ART 129  Materials and Techniques  
(4 units)(Prerequisite: Art 140. Three lecture and three laboratory hours weekly.)  
This course is designed to enrich the painter's means of expression by expanding the potential use of both materials and techniques. Assignments will include work with collage, acrylic, oil, mixed media, encaustic, pastels, oil stick, enamels, impasto, glazes, etc. (CSU/UC)

ART 130  Drawing and Composition I  
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)  
Exercises in line, light and shade, texture, and perspective rendering of objects in space; development of good composition by means of balance, repetition and variation, focal point, economy, etc. A variety of graphic materials (pencil, charcoal, pen and ink, washes, color, etc.) will be used for both realistic and experimental drawings. Lectures, demonstrations, critiques, and supervision of works in progress. A sketchbook and/or portfolio of work done in and out of class may be required. Required of all art majors. (CSU/UC)  
CSU Area C-1, CAN ART 8

ART 131  Drawing and Composition II  
(4 units)(Prerequisite: Art 130. Three lecture and three laboratory hours weekly.)  
Prerequisite of Art 130 assumes the student is competent in the use of line, value, texture, composition, and perspective to deal with:  
1) complexity of subject matter;  
2) diversity of materials;  
3) experimental media like collage and painting;  
4) color (pastels, pencil, watercolor, etc.); and  
5) independent projects agreed upon contractually between student and instructor.  
(CSU/UC)

ART 134‑135  Life Drawing I and II  
(4-4 units)(Prerequisite for Art 134 is Art 130. Art 134 is prerequisite for Art 135. Three lecture and three laboratory hours weekly.)  
This course is designed to provide the student with a basic understanding of proportion, structure, and superficial anatomy of the human figure, combined with further study of appropriate media and drawing techniques. Required of art majors. Art 134 and Art 135 may each be taken four times for credit. (CSU/UC)  
CSU Area C-1 for Art 134, CAN ART 24 = Art 134

ART 136  Drawing for Storytelling  
(1½ units)(No prerequisite. One lecture hour and one and one-half laboratory hours weekly.)  
Students will have the opportunity to learn the skills and techniques needed for the production graphic serial storytelling (for example comic books). Contour drawing, hatching, half toning, and other shading techniques as well as storyboarding and narrative development will be covered. A narrative development will be covered. A narrative story will be produced and printed in this class. May be taken twice for credit. (CSU)
ART 137  Caricature and Cartooning
(1 unit) (No prerequisite. One and one-half lecture and one and one-half laboratory hours weekly for nine weeks.)
This course is intended to introduce the student to the art of drawing caricatures and, to a limited extent, cartoons generally. In addition to providing practical instructions, the course will examine the history of caricature and the backgrounds and works of such cartoonists as Goya, Daumier, George Herriman, and David Levine. May be taken four times for credit. (CSU)

ART 138  Advanced Critique
(1 unit) (No prerequisite. One lecture hour weekly.)
A monthly critique/seminar designed for intermediate to advanced students of painting, drawing, sculpture, ceramics, textiles, photography, jewelry, and mixed media to have their work reviewed and participate in the review from a variety of perspectives. NOTE: “Advanced” means that the student has taken a number of courses in art or is a working artist who wants feedback on his/her work. May be taken four times for credit. (CSU)

ART 139  Selected Topics
(1/2-6 units) (Please see Selected Topics category.) (CSU/UC w/limit)

ART 140  Painting I
(4 units) (Prerequisite: Art 112 or 130. Three lecture and three laboratory hours weekly.)
It is especially important that students new to painting learn the process of making paintings — to go through the steps one by one, methodically covering the basics of selecting significant shapes, balancing composition, mixing paints, perfecting techniques, and developing skills. Four paintings are required of all beginning students. Attendance for both instructional (lecture, discussion, demonstration, “critique” sessions) and studio work is essential. Oil, acrylic, and mixed media. (CSU/UC) CSU Area C-1, CAN ART 10

ART 141  Painting II
(4 units) (Prerequisite: Art 140. Three lecture and three laboratory hours weekly.)
The more advanced the student, the more a strong individual approach is encouraged. Because of the varied abilities and experience found at this level, the semester assignments will be self-imposed but reviewed by the instructor on the basis of scope, technical improvement, and development of concept. Attendance is essential for instructional, studio, and “critique” sessions. Oil, acrylic, and mixed media. (CSU/UC)

ART 144  Watercolor I
(4 units) (No prerequisite. Three lecture and three laboratory hours weekly.)
A course designed to acquaint the beginner with the materials, techniques, and experience of painting with watercolor. Frequent “critique” sessions, lectures, and demonstrations will examine paper selection and reaction to the medium, the tendency of watercolor to flow, and its qualities of transparency and evaporation. The aim is to thoroughly familiarize the student with the distinctive qualities of watercolor. (CSU/UC) CSU Area C-1

ART 145  Watercolor II
(4 units) (Prerequisite: Art 144. Three lecture and three laboratory hours weekly.)
To some extent Watercolor II is a continuation of Watercolor I but with emphasis on personal development and expression. Students are encouraged to develop a visual vocabulary and way of using the watercolor medium to express their own ideas and way of seeing things. (CSU/UC)

ART 146-147  Life Painting I and II
(4-4 units) (Prerequisite for Art 146 is Art 140 and either Art 112 or Art 130. Art 146 is a prerequisite for Art 147. Must be taken in sequence. Three lecture and three laboratory hours weekly.)
This class offers instruction in painting the human figure. Individualized instruction will allow for emphasis to be placed on either portraiture or painting the entire figure. Concepts of color, design, and style will be included. (CSU/UC) CSU Area C-1 for Art 146

ART 148  Color Theory
(4 units) (No prerequisite. Three lecture and three laboratory hours weekly.)
General theory of color covering the objective and subjective aspects. Includes color notations, terminology, visual phenomena, effects of light, symbolism, and psychology of color. (CSU/UC) CSU Area C-1

ART 152-153  Printmaking I and II
(4-4 units) (Prerequisite for Art 152 is Art 130. Art 152 is a prerequisite for Art 153. Three lecture and three laboratory hours weekly.)
An introductory course in the basic concepts and techniques of printmaking. Instruction and studio work include intaglio (etching, drypoint, and engraving), relief (woodcut and linocut) collagraph and monotype methods. Emphasis is on the fine arts approach to printmaking although the relationship of these processes to the graphic arts will be explored. Formal and individual critiques on work. Art 152 and Art 153 may each be taken four times for credit. (CSU/UC) CSU Area C-1 for Art 152, CAN ART 20 = Art 152
ART 154  Surface Design on Fabric
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
This course explores the vast possibilities for dyeing and printing cloth to achieve richly patterned surfaces for apparel, interiors, theater, performance or artistic/conceptual intentions. A variety of fabric manipulations and coloring methods are investigated to develop design composition, repeat patterning, and personally expressive imagery for two- and three-dimensional fabric applications. Techniques include immersion-dyeing, shibori, color removal, painting, paste resist, block printing, burn-out, ink-jet and screen printing. Historical and contemporary examples are examined for technical information, inspiration and personal interpretation. Studio work will be enhanced through slide presentations, field trips, guest artists, individual consultations and group critiques. May be taken four times for credit. (CSU)

ART 155 Fiber Sculpture I
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
Construction processes involved with interworking of flexible elements by such techniques as layering, bonding, plaiting, stitching, and weaving, in a scale that may range from personal object to installation. May be taken four times for credit. (CSU)  
CSU Area C-1

ART 156 Fiber Sculpture II
(4 units)(No prerequisite. Advisory: Art 165. Three lecture and three laboratory hours weekly.)
Open to students from all art disciplines including textiles, who seek to integrate construction with sculpture, painting, and crafts, etc. An exploration of flexible, fragile, or fibrous materials such as cloth, paper, plastic, reed, wire, and threads. May be taken four times for credit. (CSU)

ART 170 Ceramics I
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
A basic general ceramics course for those who want to survey various techniques of wheel throwing and hand building methods, and to become familiar with ceramic glaze materials and kiln firing. It is expected that students will develop an awareness of ceramic design and explore individual solutions to specific technical and conceptual assignments. (CSU/UC)  
CSU Area C-1, CAN ART 6

ART 171 Ceramics II
(4 units)(Prerequisite: Art 170. Advisory: Art 112 or concurrent enrollment. Three lecture and three laboratory hours weekly.)
A second semester beginning ceramics course for those who wish to continue developing the basic techniques of wheel throwing and slab building methods with an emphasis on increasingly advanced projects. Direct participation in glaze preparation and kiln firing. It is expected that students will produce work reflecting an intermediate understanding of ceramic design and explore individual project resolutions through drawings and group discussion. Art 171 is a continuation of Art 170. (CSU/UC)

ART 175 Primitive Ceramics
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
A working, historical overview of forming and firing methods that have been the basis of the African, Asian, American Indian, and Pre-Columbian cultures. Locating clay deposits, preparation of clay and colors, forming and burnishing techniques, pit firing, and Raku. May be taken four times for credit. (CSU/UC)

ART 176 Pottery on the Wheel
(4 units)(No prerequisite. Advisories: Art 112 or 113; and 130. Three lecture and three laboratory hours weekly.)
This course will concentrate on the use of the potters wheel in the creation of functional and sculptural ceramic objects. Techniques of wheel throwing and trimming cups, bowls, vases, pitchers, lidded forms, closed forms, teapots and plates will be demonstrated as well as handle making. Students will be required to use basic design and drawing skills in the development of their assignments. Emphasis will be on refinement of technique rather than quantity. Covers stoneware glaze development, kiln loading, stoneware and soda firing. Development of post wheel-thrown projects will be demonstrated and encouraged. May be taken four times for credit. (CSU/UC)
ART 177  Handbuilt Ceramics
(4 units)(No prerequisite. Advisories: Art 112 or 113; and 130. Three lecture and three laboratory hours weekly.)

This course will concentrate on the use of handbuilding in the creation of functional ceramic ware and sculptural objects. Techniques of handbuilding cups, bowls, vases, pitchers, lidded forms, teapots and plates will be demonstrated as well as handle making and methods of embellishment. Students will be required to use basic design and drawing skills in the development of their assignments. Emphasis will be on exploration and creative refinement of technique. Covers basic clay bodies, glaze development, kiln loading, stoneware and soda firing. May be taken four times for credit. (CSU/UC)

ART 180  Sculpture I
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)

Study of form structure and its concept in relationship to self-expression. Survey of the history of sculpture as well as contemporary movements. Instruction in basic techniques of stone and woodcarving, modeling, moldmaking, welding, and bronze casting. (CSU/UC)

CSU Area C-1, CAN ART 12

ART 181  Sculpture II
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)

Further exploration into materials and techniques. Welding, moldmaking, bronze casting, steel fabrication, current and historical perspectives in sculpture, and visiting lecturers. Emphasis on producing art works and the experience of the artist. (CSU/UC)

ART 185  Life Sculpture I
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)

In this class both a classical and contemporary approach to figure sculpture will be studied. Working from live models, students will learn to interpret the pose, study spatial relationship and proportion, experiment with scale and learn to compose as they examine human form. Materials may include clay, wax, and plaster. Historical and contemporary approaches to the figure will be studied in slide lectures and readings. (CSU/UC)

CSU Area C-1

ART 186  Life Sculpture II
(4 units)(Prerequisite: Art 185. Three lecture and three laboratory hours weekly.)

This course is a continuation of Life Sculpture I. Continued exploration of development and technique with emphasis on individual investigation of content. Students have an opportunity to move toward abstraction to explore basic concepts of modern sculpture. (CSU/UC)

ART 187  Fundamentals of Color Photography
(3 units)(No prerequisite. Three lecture hours weekly.)

Introduction to the aesthetics, history, and fundamental techniques of photography using color slide film. An introduction to camera and film control, an awareness of light, and expressive use of color. Includes critiques of student work and a photographic fieldtrip. (CSU)

ART 188  Experimental Processes and Photography
(4 units)(Prerequisite: Art 187 or Art 190. Three lecture and three laboratory hours weekly.)

An exploration of photographic media exposing students to the concept of manipulation and interpretation of the original to reveal forms of expression that are unattainable through traditional photography. Introduction to the use of contemporary use of other media. Includes choice and application of surface color, printmaking processes, three-dimensional design, installation, and presentation choices. Emphasis on choosing the appropriate techniques to powerfully express individual content. A good choice for art majors and for those interested in the introduction to, and exploration of, the creative experimentation of photo-based processes. May be taken twice for credit. (CSU)

ART 189  Fundamentals of Lighting
(3 units)(Prerequisite: Art 187 or Art 190. Three lecture hours weekly.)

This course is intended to develop proficiency in the controlled use of light, both "on-location" and in the studio. Ambient, tungsten and flash lighting, mixed lighting techniques as well as the characteristics of different qualities of light are explored. Various camera formats, using black and white film as well as color transparency film can be used.

Diverse examples of lighting techniques used in both commercial and fine art will be shown. This is a good choice for art majors to increase their understanding of light, and to learn to photograph their own artwork. Also a good choice for students in fields that require documentation of fieldwork subjects. (CSU)
ART 190  Black and White Photography I
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
This course is designed to meet the needs of art students, photography majors, and others who would like an introduction to black and white photography and who want to improve their photographic skills. The basics of camera use, film developing and darkroom printing are presented with emphasis on balancing technical skills with artistic expression. Introduction to photographic terms will enable students to analyze photographs through discussion of their work. Major historical and contemporary photographers will be presented through slides. (CSU/UC) CSU Area C-1, CAN ART 18

ART 191  Black and White Photography II
(4 units)(Prerequisite: Art 190. Three lecture and three laboratory hours weekly.)
This course is designed to guide continuing photography students through experimentation of new materials and testing of exposure methods to refine their techniques. This course includes discussion and analysis of students’ work in group and individual critiques. It contains a study of photographer’s concepts, attitudes and philosophies. Fieldtrips and study of traditional and contemporary photography are included. May be taken twice for credit. (CSU/UC)

ART 192  Black and White Photography III
(4 units)(Prerequisite: Art 191. Three lecture and three laboratory hours weekly.)
This course seeks to develop the student’s visual skills through the refinement of technique and the study of pertinent photographic work. The course will cover advanced black and white techniques. This course is for third semester (college) black and white photography students. (CSU/UC)

ART 193  Beginning Digital Imaging for the Photographer
(4 units)(No prerequisite. Advisories: Basic computer skills and Art 112, 187, and 190. Three lecture and three laboratory hours weekly.)
The exploration of digital imaging techniques as applied to the art of photography. Emphasis is placed on the creative process while exploring electronic image making as an effective mode of communication used by photographers, artists, and designers today (Adobe Photoshop). May be taken twice for credit. (CSU)

ART 196  Portfolio Photography
(1 unit)(Prerequisite: Art 291. Two and six-tenths lecture and two and six-tenths laboratory hours weekly for five weeks.)
This is a practical course that will teach art students how to photograph their work professionally (both two- and three-dimensional) in color slide form for portfolio or publishing needs. The student must have access to a camera. May be taken twice for credit. (CSU)

ART 214  Interior Design III
(4 units)(Prerequisites: Architecture 120, Art 114 and 115. Advisories: Art 112 and 130. Three lecture and three laboratory hours weekly.)
Emphasis in this advanced class is placed on residential interior design. Students will work with clients toward creative design solutions, project development and communication, and presentation skills. Space planning, furnishings/equipment selection and arrangement, color and materials selection are covered as aspects of the residential interior design process. Portfolios and project notebooks will include floor plans, furnishings/equipment plans, elevations, paraline 45-45 oblique drawings, electrical plans, materials/finish schedules, furnishings/equipment specifications, budgets and concept/sample boards. Spring only. May be taken three times for credit. (CSU)

ART 215  Interior Design IV
(4 units)(Prerequisites: Architecture 120, Art 114 and 115. Advisories: Art 112 and 130. Three lecture and three laboratory hours weekly.)
Emphasis in this advanced class is placed on commercial interior design. Students will work with clients toward creative design solutions, project development and communication, and presentation skills. Space planning, furnishings/equipment selection and arrangement, color and materials selection are covered as aspects of the commercial interior design process. Portfolios and project notebooks will include floor plans, furnishings/equipment plans, elevations, paraline 45-46 oblique drawings, electrical plans, materials/finish schedules, furnishings/equipment specifications, budgets and concept/sample boards. Spring only. May be taken three times for credit. (CSU)

ART 216  Jewelry Design III
(4 units)(Prerequisite: Art 117. Three lecture and three laboratory hours weekly.)
Advanced design and creation of jewelry. Areas explored include techniques such as tool making, advanced hollow forming techniques, including functional, conceptual, and aesthetic aspects of designing. May be taken four times for credit. (CSU)

ART 217  Jewelry Design IV
(4 units)(Prerequisite: Art 216. Three lecture and three laboratory hours weekly.)
Advanced design and creation of jewelry. Emphasis is on stone setting, rendering, and individual projects incorporating advanced construction skills and stone setting. May be taken four times for credit. (CSU)

ART 218  Art Gallery Design and Management III
(4 units)(Prerequisite: Art 119. Three lecture and three laboratory hours weekly.)
Advanced course to allow students to apply practical application of techniques, materials, aims, and principles covered in the first two semesters. Students to plan and assume responsibilities for various phases of proposed exhibits to be installed in the Kentfield Campus Fine Arts Gallery. (CSU)
ART 219  Art Gallery Design and Management IV
(4 units)(Prerequisite: Art 218. Three lecture and three laboratory hours weekly.)
Advanced course to allow students to apply practical application of techniques, materials, aims, and principles covered in the first three semesters. Students will take greater responsibility for all phases of one specific exhibit to be exhibited at the Kentfield Campus Fine Arts Gallery. May be taken four times for credit. (CSU)

ART 234-235  Life Drawing III and IV
(4-4 units)(Prerequisite for Art 234 is Art 135. Art 234 is a prerequisite for Art 235. Three lecture and three laboratory hours weekly.)
Lectures, demonstrations, and supervision of work in progress. Drawing from undraped models. Classwork stresses the expressive qualities of the figure, and drawing accurately and sensitively with a variety of media. A sketchbook of work done outside of class is required. Art 234 and Art 235 may each be taken four times for credit. (CSU/UC)

ART 240-241  Painting III and IV
(4-4 units)(Prerequisite for Art 240 is Art 141. Art 240 is a prerequisite for Art 241. Three lecture and three laboratory hours weekly.)
The more advanced the student, the more a strong individual approach is encouraged. Because of the varied abilities and experience found at this level, the semester assignments will be self-imposed but reviewed by the instructor on the basis of scope, technical improvement, and development of concepts. Attendance is essential for instructional, studio, and “critique” sessions. Oil, acrylic, and mixed media. Art 241 may be taken four times for credit. (CSU/UC)

ART 242  Advanced Painting
(4 units)(No prerequisite. Advisory: Art 241. Three lecture and three laboratory hours weekly.)
This course is designed to broaden the base of opportunity for students to develop and expand their personal artistic direction. Technical and formal instruction will be combined with conceptual and philosophical discussions and critiques to assist and encourage students to better understand visual expression in the context of current culture. Students will be required to visit several galleries and museums in the San Francisco Bay Area and to read current fine arts periodicals and journals as well as local art criticism (e.g. San Francisco Chronicle, Examiner, etc.). In collaboration with instructor, students will formulate their own direction and be responsible for defining their own studio projects. Evaluation of student work and progress will be ongoing through regular studio contact and through group and individual critique. May be taken four times for credit. (CSU/UC)

ART 243  Painting in the Era of Post Modernism—Concepts and Techniques
(4 units)(Prerequisite: Art 241. Three lecture and three laboratory hours weekly.)
This advanced studio painting course will explore contemporary concepts, materials, and techniques associated with Post Modernism. Appropriation, pop culture and imagery, new collage/assemblage and creative re-use of images, objects, and previously established art styles will be explored in the context of painting. Students will be required to produce a body of work for final critique. May be taken four times for credit. (CSU/UC)

ART 244-245  Watercolor III and IV
(4-4 units)(Prerequisite for Art 244 is Art 145. Art 244 is a prerequisite for Art 245. Three lecture and three laboratory hours weekly.)
Lectures, demonstration, and works in progress based on extending students' abilities toward advanced experimentations in the watercolor media. Extension of palette and techniques on a larger scale and with a greater variety. Art 245 may be taken four times for credit. (CSU/UC)

ART 246-247  Life Painting III and IV
(4-4 units)(Prerequisite for Art 246 is Art 147. Art 246 is a prerequisite for Art 247. Three lecture and three laboratory hours weekly.)
This class offers advanced instruction in painting the human figure. Individualized instruction will allow for emphasis to be placed on either portraiture or painting the entire figure. Concepts of color, design, and style will be included for the advanced student. Experimentation in new techniques and materials will be encouraged. Art 247 may be taken four times for credit. (CSU/UC)

ART 249  Directed Study in Art
(1-3 units)(Limit to Enrollment: For advanced art students. Three, six, or nine laboratory hours weekly.)
This course is for advanced study only with instructor and department chair’s approval prior to enrollment in class, plus the filing of the Application for Directed Study form. A project may extend through a second semester with prior approval of the instructor. This course may be taken more than once for credit. (CSU/UC w/limit)

ART 252-253  Printmaking III and IV
(4-4 units)(Prerequisite for Art 252 is Art 153. Art 252 is a prerequisite for Art 253. Three lecture and three laboratory hours weekly.)
An in-depth continuation of Art 152-153 including planographic (lithography), photo etching, thermafax screens, advanced monotype/monoprinting and other experimental processes. Emphasis on personal expression and professional presentation of work. Art 252 and Art 253 may each be taken four times for credit. (CSU)
ART 261  Textiles: Hand Woven Constructions on Floor Looms III
(4 units)(No prerequisite. Advisories: Art 112, 161, and 162. Three lecture and three laboratory hours weekly.)

An introduction to traditional and modern dye techniques and concepts such as Ikat, painted threads, over-dye, and discharge methods. Application to specific projects and individually designed explorations. May be taken four times for credit. (CSU)

ART 262  Textiles: Hand Woven Constructions on Floor Looms IV
(4 units)(No prerequisite. Advisories: Art 112, 148, 161, and 162. Three lecture and three laboratory hours weekly.)

Individual studies of loom-controlled fiber structures that are designed for four-, six-, and eight-harness looms. Techniques used will be expanded studies based on Art 161, 162 and/or 261 by samples and projects composing an in-depth exploration. May be taken four times for credit. (CSU)

ART 265  Fiber Sculpture III
(4 units)(No prerequisite. Advisory: Art 166. Three lecture and three laboratory hours weekly.)

Experimental media in the textile construction field encourage ideas not bound by a vast history and lend themselves to fresh and spontaneous ways of working with surface and structure. Application of skills and personal direction to advanced level work. Emphasis on developing individual concepts and expression. May be taken four times for credit. (CSU)

ART 266  Fiber Sculpture IV
(4 units)(No prerequisite. Advisory: Art 265. Three lecture and three laboratory hours weekly.)

Emphasis will be placed on the design process and development of a personal strategy for problem solving. Problems pertaining to perception, use of the imagination, and expanding imagery will be given in areas of construction technique as well as dyeing and surface treatment. Students will be expected to have a body of finished work that demonstrates their explorations and conceptual approach at the end of this class. May be taken four times for credit. (CSU)

ART 270-271  Ceramics III and IV
(4-4 units)(Prerequisite for Art 270 is Art 171. Art 270 is a prerequisite for Art 271. Three lecture and three laboratory hours weekly.)

Advanced and in-depth interpretation of the common class project with greater expectations of further technical and conceptual development. Mentoring of beginning students, lab assistance in glaze preparation, kiln loading and firing. Advanced proficiency with various types of clay bodies and glaze formulation, including stoneware, porcelain, and low-fire techniques. Concentration on individual projects, which illustrate more comprehensive aesthetic understanding. Art 271 is a continuation of Art 270. (CSU)

ART 275  Ceramic Sculpture
(4 units)(Prerequisite: Art 171. Three lecture and three laboratory hours weekly.)

Advanced study of ceramics with a focus on the technical and aesthetic considerations of ceramics as a sculptural medium. It is intended for students already well grounded in forming techniques who would benefit from a more critical assessment of their work. This course includes group discussions that focus on career opportunities, resume development, professional organizations, and showing work in galleries. Development of individual style and refinement of technique will be encouraged. May be taken four times for credit. (CSU/UC)

ART 276  Advanced Wheel Thrown Ceramics
(4 units)(Prerequisite: Art 171. Three lecture and three laboratory hours weekly.)

Advanced study of ceramics with a focus on the technical and aesthetic considerations of ceramics as a functional medium. Intended for students already well grounded in throwing and handbuilding forming techniques who would benefit from a more critical assessment of their work. May involve field trips to artists’ studios, shows, and conferences. Group discussions focusing on career opportunities, resume development, professional organizations, and showings in galleries and art fairs. Development of individual style and refinement of technique will be encouraged. May be taken four times for credit. (CSU/UC)

ART 278F  Large Scale Ceramics: Emphasis on the Figure as Primary Subject Matter
(4 units)(Prerequisite. Art 171 or two semesters of Art 177. Advisories: Art 112, 113, 130. Three lecture and three laboratory hours weekly.)

This course is intended for the intermediate and advanced ceramics student who is already well grounded in basic clay working skills and glazing methods. This is an opportunity to enlarge the scale of individual work as well as participate in the design, creation and installation of public art. Emphasis on appropriate handbuilding and moldmaking techniques to familiarize the student with both freestanding and wall relief construction techniques with various clay types. Each project will require progressive technical ability and will be assigned according to the student’s level of experience, areas of interest and skill level. Examples of historical and contemporary architectural and large scale ceramics will be explored through field trips, slide lectures and visits to regional sites. (CSU)
ART 278T  Large Scale Ceramics: Emphasis on the Use of Flat or Relief Tile and/or Murals
(4 units)(Prerequisite: Art 171 or two semesters of Art 177. Advisories: Art 112, 113, 130. Three lecture and three laboratory hours weekly.)
This course is intended for the intermediate and advanced ceramics student who is already well grounded in basic clay working skills and glazing methods. This is an opportunity to enlarge the scale of individual work as well as participate in the design, creation and installation of public art Emphasis on appropriate handbuilding and moldmaking techniques to familiarize the student with both freestanding and wall relief construction techniques with various clay types. Each project will require progressive technical ability and will be assigned according to the student's level of experience, areas of interest and skill level. Examples of historical and contemporary architectural and large scale ceramics will be explored through field trips, slide lectures and visits to regional sites. (CSU/UC)

ART 280-281  Sculpture III and IV
(4-4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
Advanced participation in three-dimensional materials and techniques. Casting bronze, iron and stainless steel, sheet metal fabrication, arc, heli-arc, and torch welding techniques, ceramic shell casting, and wood construction. Intended to encourage self-evaluation as it relates to continued expression as an artist. Art 281 may be taken twice for credit. (CSU)

ART 285  Life Sculpture III
(4 units)(Prerequisite: Art 186. Three lecture and three laboratory hours weekly.)
This is a continuation of Life Sculpture II. Continued exploration of development and technique with emphasis on individual investigation of content. Students have an opportunity to move toward abstraction to explore basic concepts of modern sculpture. (CSU/UC)

ART 286  Life Sculpture IV
(4 units)(Prerequisite: Art 285. Three lecture and three laboratory hours weekly.)
This is a continuation of Life Sculpture III. Continued exploration of development and technique with emphasis on individual investigation of content. Students have an opportunity to move toward abstraction to explore basic concepts of modern sculpture. Art 286 may be taken twice for credit. (CSU/UC)

ART 290  Black and White Photography IV
(4 units)(Prerequisite: Art 192. Three lecture and three laboratory hours weekly.)
Individual or group projects in the field of creative photography. Emphasis on photographic art and trends in contemporary photography. Trips to photographic exhibits encourage analytical discussion. Student art works may be displayed at public showings. May be taken three times for credit. (CSU/UC)

ART 292  Photographic History
(3 units)(No prerequisite. Three lecture hours weekly.)
A chronological, systematic presentation of the photographers and the evolution of photographic materials, processes, and techniques from the Camera Obscura through the earliest chemical investigations in the 1600s to the photographic events of the last quarter of the twentieth century. Critical thinking is encouraged through written assignments and group discussions. (CSU/UC)

ART 293  The Photographic Portfolio
(3 units)(Prerequisites: Art 192 or 290. One lecture and six laboratory hours weekly.)
This course enables the student to focus on the completion of a photographic portfolio. Students will present their work to instructor and peers, and will refine concepts and presentation through these critiques. May be taken twice for credit. (CSU)

CSU Area C-1

ASTRONOMY COURSES

ASTR 39  Selected Topics (Nondegree Applicable)
(1½-6 units)(Please see Selected Topics category.)

ASTR 101  Introduction to Astronomy
(3 units)(No prerequisite. Two lecture and one discussion hour weekly.)
This course is a non-mathematical description of the universe designed especially for the nonscience student. Topics include the sky and its apparent motion, the law of gravity, the nature of light, the solar system, stars and stellar evolution, galaxies and cosmology, and life in the universe. Can also be offered in a distance learning format. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC 5A

ASTR 105  Cosmic Evolution
(3 units)(No prerequisite. Can be taken for credit as Astronomy 105, Biology 105, or Geology 105. However, credit will be awarded for only one course. Three lecture hours weekly.)
This is an interdisciplinary course that explores the origins and evolution of the cosmos from the Big Bang and the formation of the universe and Earth, to the development of life. Students will explore basic concepts and principles that bind all scientific disciplines, and the nature of science and scientific inquiry. Through the study of astronomy, chemistry, geology, and biology, students will discover the interrelatedness of all matter, living and nonliving in the cosmos and how physical and chemical processes eventually led to the evolution of living organisms. (CSU/UC)
AA/AS Area A, CSU Area B-1 or B-2, IGETC Area 5A
ASTR 117F  Introductory Astronomy Field Lab
(1 unit)(Prerequisite: Astronomy 101 or 105 or Physics 110 or concurrent enrollment. The maximum credit allowed for Astronomy 117F and 117L is one course. A one-week field trip consisting of fifty-two and one-half laboratory hours.)
This course will develop the student's ability to investigate and solve problems in astronomy. Techniques of experimentation, direct observation, data gathering, and interpretation will be employed to solve both classical and contemporary problems in astronomy. The class will include observations using telescopes, astrophotography, and computer acquisition of data. This course will develop the student's awareness of the scientific method and how to apply it to specific problems and their solutions. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC 5A

ASTR 117L  Introductory Astronomy Lab
(1 unit)(Prerequisite: Astronomy 101 or 105 or Physics 110 or current enrollment. Three laboratory hours weekly.)
This course will develop the student's ability to investigate and solve problems in astronomy. Techniques of experimentation, direct observation, data gathering, and interpretation will be employed to solve both classical and contemporary problems in astronomy. The class will include observations using telescopes, astrophotography, and computer acquisition of data. This course will develop the student's awareness of the scientific method and how to apply it to specific problems and their solutions. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC 5A

ASTR 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

ASTR 249  Directed Study
(1-3 units)(Limit to Enrollment: One astronomy or physics course. Prior arrangement with instructor is necessary. Three laboratory hours per unit weekly.)
A course designed to give a student an opportunity to participate in a research program in astronomy. (CSU/UC w/limit)

AUTOMOTIVE COLLISION REPAIR TECHNOLOGY COURSES

ACRT 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

ACRT 95  Applied Automotive Math
(1 unit)(No prerequisite. One lecture hour weekly. Can be taken for credit as Automotive Collision Repair Technology 95 or Automotive Technology 95. However, credit will be awarded for only one course.)
This course will review addition, subtraction, multiplication and division of whole numbers, fractions, decimals and percent. Also included are ratio and proportion; metric system, graphs and applications specific to automotive technology. Paint mixing ratios and writing repair orders. May be taken four times for credit.

ACRT 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

ACRT 160A  Automotive Painting and Refinishing Repair Workshop
(1 unit)(No prerequisite. Three laboratory hours weekly.)
This course is designed as a skill-building workshop in the area of automotive refinishing. Students will work on projects of their choice under the direction and supervision of the instructor. Practice will include methods and techniques in basic, intermediate and advanced levels of auto refinishing. Related aspects of the automotive collision repair field will also be reviewed and practiced. May be taken four times for credit. (CSU)

ACRT 160B  Automotive Dent and Damage Repair Workshop
(1 unit)(No prerequisite. Three laboratory hours weekly.)
This course is designed as a skill-building workshop in the area of automotive dent and damage repair. Students will work on projects of their choice under the direction and supervision of the instructor. Practice will include methods and techniques in basic, intermediate and advanced levels of auto non-structural. Related aspects of the automotive collision repair field will also be reviewed and practiced. May be taken four times for credit. (CSU)
ACRT 160C  Automotive Structural Repair Workshop  
(1 unit) (No prerequisite. Three laboratory hours weekly.)  
This course is designed as a skill-building workshop in the area of automotive structural repair. Students will work on projects of their choice under the direction and supervision of the instructor. Practice will include methods and techniques in basic, intermediate and advanced levels of auto structural repair. Related aspects of the automotive collision repair field will also be reviewed and practiced. May be taken four times for credit. (CSU)

ACRT 160D  Automotive Mechanical and Electrical Repair Workshop  
(1 unit) (No prerequisite. Three laboratory hours weekly.)  
This course is designed as a skill-building workshop in the area of automotive mechanical and electrical repair. Students will work on projects of their choice under the direction and supervision of the instructor. Practice will include methods and techniques in basic, intermediate and advanced levels of auto mechanical and electrical repair. Related aspects of the automotive collision repair field will also be reviewed and practiced. May be taken four times for credit. (CSU)

ACRT 160E  Automotive Plastic Repair Workshop  
(1 unit) (No prerequisite. Three laboratory hours weekly.)  
This course is designed as a skill-building workshop in the area of automotive plastic repair. Students will work on projects of their choice under the direction and supervision of the instructor. Practice will include methods and techniques in basic, intermediate and advanced levels of auto plastic repair. Related aspects of the automotive collision repair field will also be reviewed and practiced. May be taken four times for credit. (CSU)

ACRT 169  Metalworking and Fundamentals I  
(4 units) (No prerequisite. Two lecture and six laboratory hours weekly.)  
This course is designed to assist the student to successfully enter the automotive collision repair field or to understand metalworking techniques for their usefulness in other applications. It will include basic metal straightening fundamentals and will introduce the beginner to the tools, techniques, and theory of metalworking. Provides the laboratory practice necessary for metal bumping and metal finishing required for successful rebuilding of damaged vehicle body panels and parts. May be taken four times for credit. (CSU)

ACRT 170  Metalworking and Fundamentals II  
(4 units) (No prerequisite. Two lecture and six laboratory hours weekly.)  
This course is designed to assist the student to successfully enter the automotive collision repair field and/or to understand metalworking techniques for their usefulness in other applications. It will include advanced metal straightening fundamentals and will introduce the beginner to advanced tools techniques, and the theory of metalworking. This course provides the laboratory practice necessary for metal bumping and metal finishing required for successful rebuilding of damaged vehicle body panels and parts. In addition, it will introduce the student to many other up-to-date timesaving metalworking techniques. It will cover the proper use of plastic fillers, slide-hammers, pull rods, dozers, and powerposts. May be taken four times for credit. (CSU)

ACRT 171  Dent and Damage Repair  
(2 units) (No prerequisite. One lecture and three laboratory hours weekly.)  
This course is designed for the person whose car has everyday run-of-the-mill dents, scrapes, scratches, and gouges. You can't remember where they all came from, but these are the ones that are usually left unfixed or you end up paying for them out of your own pocket. Most people simply lack the confidence to attempt their own minor automotive body and fender repairs. Until now the basic do-it-yourself instructions have not been available. With a surprisingly small number of tools, anyone can make small automotive body and fender repairs. May be taken four times for credit. (CSU)  
Note: All work done on vehicles must have instructor’s approval.
ACRT 176  Introduction to Plastics for Automotive Body Repair  
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

Because plastic is lighter in weight than metal, it has become an important part of today's vehicles. Plastic is synthetically compounded from crude oil, coal, natural gas, and other natural substances. Plastic vehicle parts include bumpers, fender extensions, fascias, fender aprons, grille openings, stone shields, instrument panels, trim panels, fuel lines, door panels, and engine parts. In this course students will be able to understand and use plastics of all types in automotive repairs of the parts listed above. May be taken four times for credit. (CSU)

ACRT 177  Maintenance and Detailing  
(2 units)(No prerequisite. This course is required for automotive body and fender technology majors. One lecture and three laboratory hours weekly.)

This course covers complete body care and maintenance: buffing, rubbing, polishing, upholstery cleaning and dyeing, paint touchup (interior and exterior), carpets and mats, vinyl and convertible top maintenance and color change, chrome parts and paint upkeep, and engine and chassis cleaning and painting. May be taken four times for credit. (CSU)

ACRT 178  Introduction to Welding for Automotive Body Repair  
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

With major collision repairs, many of the panels or parts on a vehicle must be replaced and welded into place. The structural integrity of a vehicle is dependent upon how well you weld and install panels and parts. In this course you will learn how to identify the three classes of welding and the techniques used in the welding and installation of panels. The student will learn the various methods of welding, basic welding techniques, grazing and soldering, and plasma arc cutting. May be taken four times for credit. (CSU)

ACRT 180  Panel Replacement  
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

This course will cover the basic procedures involved in the removal and replacement of quarter panels, rocker panels, door panels, and top panels. It also includes the various methods available for splicing damaged body panels or sections, rocker panels, floor sections, and front and rear body clips. May be taken four times for credit. (CSU)

ACRT 225  Automotive Careers and Customer Relations  
(2 units)(No prerequisite. May be taken for credit as Automotive Collision Repair Technology 225 or Automotive Technology 225. However, credit will be awarded for only one course. Two lecture hours weekly.)

This course will teach you how to write a resume, fill out a job application, develop a portfolio, organize and complete a personal tax form. The course will cover work ethics and worker/employer relationships. It will address customer relations in the auto repair industry and will include how to improve individual attitudes, productivity, and morale in working. Students will also study methods of work and time scheduling in the independent service shop, service stations and dealerships. Students will be exposed to a variety of speakers from industry and will review their personal career in the automotive industry. May be taken four times for credit. (CSU)

ACRT 249  Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

ACRT 273  Painting and Refinishing  
(4 units)(No prerequisite. Two lecture and six laboratory hours weekly.)

This course is designed as an introduction to the highly-skilled field of automotive spot painting and refinishing. It will include a comprehensive study of materials, equipment, and techniques necessary for the successful application of automotive refinishing material. May be taken four times for credit. (CSU)

ACRT 274  Painting and Refinishing—Enamels and Polyurethanes  
(4 units)(No prerequisite. Two lecture and six laboratory hours weekly.)

This course is designed as an introduction to the highly-skilled field of automotive enamel, acrylic enamel, and polyurethane refinishing. It will include a comprehensive study of the materials, equipment, and techniques used for the successful application of each of these widely used automotive refinishing materials. May be taken four times for credit. (CSU)

ACRT 279  Frame Straightening and Repair  
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

This course will cover conventional and unitized constructed vehicle frames, straightening and alignment of each type, alignment at cross members, rear and side frame members, suspension systems, and steering principles in their relationship to frame alignment. (Study, demonstration, and practice with various types of frame straightening machines, gauges, tools, and safety precautions, used in the automotive collision industry, will be covered.) May be taken four times for credit. (CSU)
AUTOMOTIVE TECHNOLOGY COURSES

AUTO 39   Selected Topics (Nondegree Applicable)
(1/2-6 units)(Please see Selected Topics category.)

AUTO 95   Applied Automotive Math
(1 unit)(No prerequisite. One lecture hour weekly. Can be taken for credit as Automotive Technology 95 or Automotive Collision Repair Technology 95. However, credit will be awarded for only one course.)

This course will review addition, subtraction, multiplication and division of whole numbers, fractions, decimals and percent. Also included are ratio and proportion; metric system, graphs and applications specific to automotive technology. Paint mixing ratios and writing repair orders. May be taken four times for credit.

AUTO 110   Introduction to Automotive Maintenance
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

An introductory course which will study basic lab procedures, safety, service information, oil change service, under hood inspection, under vehicle service and belts, hoses, tubing services, tire and wheel service, and cooling system service. May be taken four times for credit. (CSU)

AUTO 111   Automotive Maintenance — Intermediate
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

An intermediate course which will study engine testing and repair, engine performance, fuel and emission service, general electrical system repair, battery service, brake service and suspension, and steering and alignment service. May be taken four times for credit. (CSU)

AUTO 112   Automotive Engines
(4 units)(No prerequisite. Two lecture and six laboratory hours weekly.)

This course is designed for students with a desire to become automotive technicians. This course provides training in diagnosing and servicing modern automotive engines used on cars, pickups, light trucks, and utility vehicles. The course covers operation and repair of automotive engines including disassembly, testing, and reassembly. Automotive machine shop skills are not included. This course is a skills-competency based curriculum. In order to pass this class, each student must demonstrate his/her competency to perform skills necessary to qualify for technician positions, which require minimum supervision upon employment. May be taken four times for credit. (CSU)

AUTO 113   Specialized Electronic Training
(5 units)(No prerequisite. Four lecture and three laboratory hours weekly.)

This course is designed for students with a desire to become technicians. This course provides training in electrical and electronic systems used on cars, pickups, light trucks, and utility vehicles. The course includes theory and operations of OHMS law, Digital Volt Ohm Meters, electrical circuits, wiring diagrams, schematics, and wire repair. This course is a skills-competency based curriculum. In order to pass this class each student must demonstrate his/her competency to perform skills necessary to qualify for technician positions, which require minimum supervision upon employment. May be taken four times for credit. (CSU)

AUTO 114   Automotive Basic Fuel Systems
(4 units)(No prerequisite. Two lecture and six laboratory hours weekly.)

This course is designed for students with a desire to become technicians. This course provides training in diagnosing and servicing modern automotive fuel systems used on cars, pickups, light trucks, and utility vehicles. The course covers operation and repair of fuel systems, carburetors, and electronic fuel injection systems. Modern diagnostic tools and equipment will be used. This class is a skills-competency based curriculum. In order to pass this class each student must demonstrate his/her competency to perform skills necessary to qualify for technician positions which require minimum supervision upon employment. May be taken four times for credit. (CSU)

AUTO 116   Automotive Electrical Systems
(6 units)(No prerequisite. Three lecture and nine laboratory hours weekly.)

This course is designed for students with a desire to become technicians. This course provides training in diagnosing and servicing modern automotive electrical systems used on cars, pickups, light trucks, and utility vehicles. Emphasis is placed on developing a comprehensive understanding of all electrical components with special emphasis on diagnosis, repair, and testing of electrical systems. This course is a skills-competency based curriculum. In order to successfully pass this class each student must demonstrate his/her competency to perform skills necessary to qualify for technician positions, which require minimum supervision upon employment. May be taken four times for credit. (CSU)
AUTO 118  Brakes, Alignment, and Suspension
(6 units)(No prerequisite. Three lecture and nine laboratory hours weekly.)
Wheel balance, wheel alignment, brake repair, automotive suspensions, steering gears, and driveline repair. Students will learn to balance wheels, become proficient in operating wheel aligners, including four-wheel computer aligners, repair and service both disc, drum and anti-skid brake systems, and service both rack and pinion and worm gear steering gears. Diagnosing and troubleshooting all of these systems are included. Health and safety working with asbestos will be stressed. May be taken four times for credit. (CSU)

AUTO 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

AUTO 225  Automotive Careers and Customer Relations
(2 units)(No prerequisite. May be taken for credit as Automotive Technology 225 or Automotive Collision Repair Technology 225. However, credit will be awarded for only one course. Two lecture hours weekly.)
This course will teach you how to write a resume, fill out a job application, develop a portfolio, organize and complete a personal tax form. The course will cover work ethics and worker/employer relationships. It will address customer relations in the auto repair industry and will include how to improve individual attitudes, productivity, and morale in working. Students will also study methods of work and time scheduling in the independent service shop, service station, and dealerships. Students will be exposed to a variety of speakers from industry and will review their personal career in the automotive industry. May be taken four times for credit. (CSU)

AUTO 228  Automotive Computer Controls
(4 units)(No prerequisite. Two lecture and six laboratory hours weekly.)
This course is designed for students with a desire to become technicians. This course provides training in diagnosing and servicing modern automotive computer control systems used on cars, pickups, light trucks, and utility vehicles. This course covers operation of sensors, actuators and control modules, and the use of modern scan tools and diagnostic tools. This class is a skills-competency based curriculum. In order to pass this class each student must demonstrate his/her competency to perform skills necessary to qualify for technician positions, which require minimum supervision upon employment. May be taken four times for credit. (CSU)

AUTO 229  Automotive Systems, Troubleshooting and Diagnosis
(4 units)(No prerequisite. Two lecture and six laboratory hours weekly.)
This course is designed for students with a desire to become technicians. This course provides training in diagnosing and servicing modern automotive electronic and electronic systems used on cars, pickups, light trucks, and utility vehicles. This course covers the diagnostic thought process used to diagnose and repair cranking, charging, ignition, air bag, lighting systems, gauge and instrument panels, horn, wiper/washer, and accessory systems. This class is a skills-competency based curriculum. In order to pass this class each student must demonstrate his/her competency to perform skills necessary to qualify for technician positions, which require a minimum of supervision upon employment. May be taken four times for credit. (CSU)

AUTO 232  Automatic Transmission/Transaxles
(4 units)(No prerequisite. Two lecture and six laboratory hours weekly.)
This course is designed for students with a desire to become technicians. This course provides training in diagnosing and servicing modern automotive automatic transmissions and transaxles used on cars, pickups, light trucks, and utility vehicles. The course covers construction, function, and principles of operation including planetary gears, power flow, friction devices, and hydraulic and electrical controls. This class is a skills-competency based curriculum. In order to pass this class each student must demonstrate his/her competency to perform skills necessary to qualify for technician positions, which require minimum supervision upon employment. May be taken four times for credit. (CSU)

AUTO 233  Manual Drive Trains and Axles
(4 units)(No prerequisite. Two lecture and six laboratory hours weekly.)
This course is designed for students with a desire to become a technician. This course provides training in diagnosing and servicing modern automotive manual transmissions and transaxles used on cars, pickups, light trucks and utility vehicles. This course covers theory and service of clutches, transmissions, transaxles, driveshafts, driveaxles, and 4-wheel drive systems. This class is a skills-competency based curriculum. In order to pass this class each student must demonstrate his/her competency to perform skills necessary to qualify for technician positions, which require minimum supervision upon employment. May be taken four times for credit. (CSU)
AUTO 235  Automotive Air Conditioning
(2½ units)(No prerequisite. Two lecture and one and one-half laboratory hours weekly.)

This course is designed for students with a desire to become technicians. This course provides training in diagnosing and servicing modern automotive air conditioning systems used on cars, pickups, light trucks, and utility vehicles. The course covers refrigerant certification, operation of manual and automatic A/C systems, and procedures used to test and repair heating and air conditioning systems. This class is a skills-competency based curriculum. In order to pass this class each student must demonstrate his/her competency to perform skills necessary to qualify for technician positions, which require minimum supervision upon employment. May be taken four times for credit. (CSU)

AUTO 238  Basic Area Clean Air Car Course
(3½ units)(No prerequisite. Three lecture and one and one-half laboratory hours weekly.)

All technicians who wish to become State Licensed Smog Inspection Technicians must complete this course. The course covers operation of the BAR 90 ET Emission Analyzer System, Bureau of Automotive Repair rules and regulations, vehicle emission testing procedures, theory and operation of the OBD II Engine Performance System. May be taken four times for credit. (CSU)

AUTO 240  Enhanced Area Clean Air Car Course
(1 unit)(No prerequisite. A total of eighteen lecture hours and ten laboratory hours.)

This course is designed for technicians wishing to become licensed as an “Advanced Emission Specialist” Smog Inspection Technician. May be taken four times for credit. (CSU)

AUTO 249  Directed Study
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

AUTO 275  Automotive Brake Systems
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

This course is designed for students with a desire to become auto technicians or for those already working in the field. Students will update knowledge and skills in the area of conventional and anti-lock braking systems. The course will cover the use of scan tools and other diagnostic equipment used to troubleshoot ABS brake systems. (CSU)

AUTO 276  Automatic Transmission Repair
(2 units)(No prerequisite. One and one-half lecture and one and one-half laboratory hours weekly.)

This course is designed to help upgrade skills in automotive transmission repair and diagnosis. Components such as planetary gears, clutches, controls, and valve bodies will be studied. Laboratory exercises will be conducted on laboratory transmissions, both foreign and domestic. May be taken four times for credit. (CSU)

AUTO 277  Alignment and Suspension
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

This course is designed for the students with a desire to become auto technicians or for those already working in the field. Students will update knowledge and skills in the area of tires, alignment and suspension. The course will cover the use of tire changers, wheel balancers and computerized four-wheel alignment equipment. New suspension systems will be discussed. (CSU)

AUTO 281  Electrical and Electronic Systems Training - A6 Alternative
(2 units)(No prerequisite. Two lecture hours and one laboratory hour weekly.)

This course is designed to bring to students the knowledge and skills required to diagnose and repair modern vehicles experiencing drivability and emission faults resulting from electrical system malfunctions. May be taken four times for credit. (CSU)

AUTO 283  Engine Performance Diagnosis and Repair - A8 Alternative
(2 units)(No prerequisite. Two lecture hours and one laboratory hour weekly.)

This course is designed to bring to students the knowledge and skills required to diagnosis and repair modern vehicles experiencing engine performance malfunction. May be taken four times for credit. (CSU)

AUTO 285  Advanced Engine Performance/ Emission Systems Diagnosis and Repair - L1 Alternative
(2 units)(No prerequisite. Two lecture hours and one laboratory hour weekly.)

This course is designed to bring to students the knowledge and skills required to diagnose and repair modern vehicles experiencing drivability and emission faults resulting from powertrain system malfunctions. May be taken four times for credit. (CSU)
BEHAVIORAL SCIENCE COURSES

BEHS 39  Selected Topics (Nondegree Applicable)  
(½-6 units) (Please see Selected Topics category.)

BEHS 103  Human Sexuality  
(3 units)(No prerequisite. When specified in the class schedule, may be taken for credit as Behavioral Science 103 or Biology 108A. Students will receive credit for only one course. Three lecture hours weekly.)

This is a survey course dealing with aspects of human sexual behavior. Topics will be considered from psychological, social, cultural, and biological perspectives. Topics to be included are sexual anatomy and physiology, hormones, conception and contraception, sex research, sex and the life span, human sexual activities and behaviors, sexual orientation, gender, sex and society, and contemporary sexual issues. (CSU/UC) 
AA/AS Area B, CSU Area D-7 or E, IGETC Area 4

BEHS 105  Sex Roles in Contemporary Society  
(3 units)(No prerequisite. Three lecture hours weekly.)

This course examines the ways in which female and male roles and sex role stereotyping influence our lives. Topics will include biological and cultural contributions to sex role-playing in interpersonal relationships, and the impact of sex roles on personal growth. Emphasis on the social and personal implications of moving toward androgyny (role-free human behavior and identity). (CSU/UC)

BEHS 114  Chemical Dependency  
(3 units)(No prerequisite. Three lecture hours weekly.)

This course examines the behavioral and psychological effects of chemical dependency on the individual. Included is an analysis of the effects of substance abuse on the family and the sociological conditions contributing to substance abuse. The primary focus is on the role of the mental health professional in issues of substance abuse. (CSU) 
CSU Area D-7 or E

BEHS 139  Selected Topics  
(½-6 units) (Please see Selected Topics category.) (CSU/UC w/limit)

BEHS 201  Understanding Globalization: The Impact of Social, Political, and Economic Change  
(3 units)(No prerequisite. Can be taken for credit as Behavioral Science 201, Economics 201, or Political Science 201. However, credit will be awarded for only one discipline. Three lecture hours weekly.)

The world is becoming more integrated and interdependent, heightening the need for greater understanding of the impact of globalization on the economy, politics, and society. This interdisciplinary team-taught course explores the new wave of global political, economic, and social change and the opportunities and challenges it brings to states, institutions, and individuals. Focus is upon what the individual will need to know and understand to be an effective participant in these rapidly changing global phenomena. (CSU/UC) 
AA/AS Area B, CSU Area D-7, IGETC Area 4

BEHS 249  Directed Study in Anthropology, Psychology, and Sociology  
(1-3 units)/(Limit to Enrollment: Successful completion of at least three units in anthropology, behavioral science, psychology, or sociology.) (CSU/UC w/limit)

BEHS 252  Seminar and Fieldwork Experience  
(3 units)(No prerequisite. Corequisite: Psychology 110 or 112 or Sociology 110. Behavioral Science 252 and Psychology 252 are equivalent. Credit is given for only one course. One and one-half lecture and four and one-half fieldwork hours weekly.)

This course is designed to give students meaningful participation in a psychologically related community service agency in order to understand the applications of psychological principles, theories, and concepts. With the mutual consent of student and instructor each student is placed in a school, social agency, special education program, mental health agency, or community organization and works under the direct supervision of someone with a degree, credential, or demonstrated expertise in psychology or sociology. The one and one-half hour weekly seminar provides students and instructor the opportunity to present observations, discuss perceptions, and apply relevant theories and concepts to their fieldwork participation. May be taken twice for credit. (CSU)

BIOLOGY COURSES

BIOL 39  Selected Topics (Nondegree Applicable)  
(½-6 units) (Please see Selected Topics category.)

BIOL 99  General Science  
(3 units)(No prerequisite. Can be taken for credit as Biology 99 or Geology 99. However, credit will be awarded for only one course. Three lecture hours weekly.)

This course is designed for students who have not reached the level of success they desired in high school or college science courses and for individuals returning to school after an extended absence. The course covers basic scientific principles and concepts of the physical and life sciences and prepares students to move into other science classes with the information, understanding, and skills required to succeed. Introductory topics in biology, chemistry, geography, geology, meteorology, and physics are discussed. This course also provides an excellent overview of the most important topics in science today for anyone interested in learning more about the natural world.

BIOL 100  Nutrition  
(3 units)(No prerequisite. Three lecture hours weekly.)
This course provides an in-depth study of the basic principles of nutrition in health and disease. Topics include: nutrients, vitamins, digestion, metabolism, food safety, diets, eating disorders, and changing nutritional needs throughout life. This course is a general education course recommended for anyone curious or concerned about nutrition. (CSU/UC)  
**AA/AS Area A, CSU Area E, CAN FCS 2**

**BIOL 101 Field Biology**  
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)  
This outdoor field course is designed to give nonmajors in biology an overview of Marin's varied plant and animal communities. Most of Marin's 25 biotic community types are investigated including aquatic and terrestrial. Identification of plants, animals, and ecology are major areas of emphasis. (CSU)  
**AA/AS Area A**

**BIOL 104 The Ecology of Infectious Diseases**  
(3 units)(No prerequisite. Three lecture hours weekly.)  
This course is designed for both science and nonscience majors interested in understanding the distribution and spread of infectious diseases. Emphasis is on the role that specific environments play in determining where and when epidemics will occur. Topics include the biology and ecology of microorganisms and their hosts, geographic medicine, the impact of human activity on the incidence and transmission of infectious diseases, and epidemics in human history. (CSU)  
**AA/AS Area A**

**BIOL 105 Cosmic Evolution**  
(3 units)(No prerequisite. Can be taken for credit as Astronomy 105, Biology 105, or Geology 105. However, credit will be awarded for only one course. Three lecture hours weekly.)  
This is an interdisciplinary course that explores the origins and evolution of the cosmos from the Big Bang and the formation of the universe and Earth, to the development of life. Students will explore basic concepts and principles that bind all scientific disciplines, and the nature of science and scientific inquiry. Through the study of astronomy, chemistry, geology, and biology, students will discover the interrelatedness of all matter, living and nonliving in the cosmos and how physical and chemical processes eventually led to the evolution of living organisms. (CSU/UC)  
**AA/AS Area A, CSU Area B1 or B2, IGETC Area 5B**

**BIOL 107 Human Biology**  
(3 units)(No prerequisite. Can be taken for credit as Biology 107 or Physical Education 107. However, credit will be awarded for only one course. Three lecture hours weekly.)  
This course is designed to provide students with an introduction to the structure, function, and development of the human body. The course will give students the foundational concepts to explore personal and societal issues involving human biology as well as cover anatomy and physiology concepts useful in preparing for careers in wellness-related fields such as personal training, group fitness instruction, and massage therapy. Topics include an introduction to scientific methods of investigation and some elementary chemistry (no previous background necessary) as a basis for understanding human functions such as movement, digestion, circulation, reproduction, and other systems. Some diseases and other causes of body malfunction will be discussed. (CSU/UC)  
**AA/AS Area A, CSU Area B-2, IGETC Area 5B**

**BIOL 108 Animal Behavior**  
(3 units)(No prerequisite. Advisory: Biology 110. Three lecture hours weekly.)  
Introduction to the behavior of animals with an emphasis on the evolution and adaptive significance of these behaviors. (CSU/UC)  
**BIOL 108A Human Sexuality**  
(3 units)(No prerequisite. Biology 108A and Behavioral Science 103 combined, maximum credit allowed, one course. Three lecture hours weekly.)  
This is a survey course covering human sexuality from a cross-disciplinary approach. The course will examine sexuality from physiological, anatomical, behavioral, and cross-cultural perspectives. Among the topics to be discussed are conception, fetal development, labor and birth, puberty, menstruation, sexual intercourse, menopause, sexually transmitted diseases, sexual variations, masturbation, contraception, sexual anatomy, sex hormones, medical disorders, pornography, relationships, and sexuality and the life cycle. A special emphasis will be current trends in sex research and sexual behavior. (CSU/UC)  
**BIOL 110 Introduction to Biology**  
(3 units)(No prerequisite. Advisory: Concurrent enrollment in Biology 110L. Three lecture hours weekly.)  
This course is an introduction to the science of biology for nonmajors as well as a prerequisite course for majors in biology. Subjects include ecology, human ecology, evolution, molecular, cell biology, genetics, systematics of monerans, protists, fungi, plants and animals, and human physiology. (CSU/UC)  
**BIOL 110L Introduction to Biology Laboratory**  
(1 unit)(Prerequisite: Biology 110 or concurrent enrollment. Three laboratory hours weekly.)
This course is an introduction to biology experimentation for nonmajors. Experiments and field studies are selected from ecology, molecular, cell biology, genetics, plant anatomy and identification, and human physiology topics. (CSU/UC)

**AA/AS Area A, CSU Area B-2, IGETC Area SB**

**Biol 115 Principles of Biology**

(5 units)(Prerequisites: Biology 110, 110L, and Chemistry 131. Three lecture and six laboratory hours weekly.)

This is an introductory course for biology majors covering the fundamentals of molecular and cell biology, genetics, DNA technology, evolution, and ecology. It is a lecture/laboratory-based course in which students incorporate lecture concepts into laboratory experiments that they design, carry out, analyze, and report.

Please note that Biology 115 is not a prerequisite for Biology 116. Since Biology 115 has a Chemistry 131 prerequisite and Biology 116 does not, students may wish to register for Biology 116 and Chemistry 131 during the same semester. (CSU/UC)

**AA/AS Area A, CSU Area B-2, IGETC Area SB, CAN BIOL SEQ A = Biol 115 +116**

**Biol 116 Principles of Animal and Plant Diversity**

(5 units)(Prerequisite: Biology 110 and 110L. Three lecture and six laboratory hours weekly.)

This is a course for biology majors to study the evolution of organisms from Monera to plants and animals. Emphasis will be placed on taxonomy, comparative morphology, and ecology of plants and animals.

Please note that Biology 115 is not a prerequisite for Biology 116. Since Biology 115 has a Chemistry 131 prerequisite and Biology 116 does not, students may wish to register for Biology 116 and Chemistry 131 during the same semester. (CSU/UC)

**AA/AS Area A, CSU Area B-2, IGETC Area SB, CAN BIOL SEQ A = Biol 115 +116**

**Biol 120 Human Anatomy**

(5 units)(Prerequisite: Biology 110 and 110L. Advisory: Completion of English 98 or equivalent. Three lecture and six laboratory hours weekly.)

This course is a study of the gross and microscopic structure of the tissues, organs and organ systems of the human body, including major functions. The class will make use of models, slides, prosections and dissection (including human cadavers). Includes introduction to related fields such as histology and embryology. Appropriate for students going into allied health fields, kinesiology, anthropology and art. (CSU/UC)

**AA/AS Area A, CSU Area B-2, IGETC Area SB, CAN BIOL 10, CAN BIOL SEQ B = Biol 120 + 224**

**Biol 138 Introduction to Biological Sciences**

(4 units)(No prerequisite. Can be taken for credit as Biology 138 or Geology 138. However, credit will be awarded for only one course. Three lecture and three laboratory hours weekly.)

This course is a science-based course and takes an interdisciplinary approach to understanding the environmental crisis that confronts us all. Our studies combine ideas and information from natural sciences (such as biology, chemistry and geology) and social sciences (such as economics, politics, and ethics) to present a general idea of how nature works and how humans and ecosystems are interconnected. It is a study of connections in nature. Discussions will focus on an understanding of ecosystem services, how humans interfere with earth's life support systems and how to deal with the environmental problems we face. Emphasis is placed on understanding various world views and how they affect our values. Our field studies will include visits to restoration projects, local ecosystem field studies and local environmental conferences. (CSU/UC)

**CSU Area B-1, IGETC Area 5A or 5B**

**Biol 139 Selected Topics**

(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

**Biol 140 Environmental Field Techniques**

(1 unit)(No prerequisite. Can be taken for credit as Biology 140 or Geology 140. However, credit will be awarded for only one course. Three laboratory hours weekly.)

This course is designed to teach the fundamentals of environmental sampling and monitoring. Topics include surveying and mapping; data collection and management; and hydrological, geological, and biological assessment methods. This course is field based and the emphasis is on the mastery of practical field techniques. May be taken four times for credit. (CSU)

**Biol 142 Environmental Policy and Planning**

(3 units)(No prerequisite. Can be taken for credit as Biology 142 or Geology 142. However, credit will be awarded for only one course. Three lecture hours weekly.)

This course is a study of federal, state, and local environmental legislation. It is a chronology of America’s awakening to environmental issues and a study of our efforts to resolve these issues through the planning process. An understanding of the content of this course is vital for environmental scientists, planners, and developers. (CSU/UC)
BIOL 143  Stewardship of Marin Parks and Open Space
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

Besides making Marin a desirable place in which to live and travel, its nonurbanized park and open space areas carry with them a great responsibility: preservation and enhancement of their best qualities for present and future generations. Fulfilling this responsibility is a continuing process that began years ago and now involves a diverse mix of philosophical, legislative, biological, sociological and logistical challenges. The course includes essential background material, interviews with current management personnel, and field visits to parkland and open space areas of special interest. (CSU)

BIOL 145  Ethics in Science
(3 units)(No prerequisite. Can be taken for credit as Biology 145 or Geology 145. However, credit will be awarded for only one course. Three lecture hours weekly.)

This course explores some of the most pressing issues facing our society today. It enables students to investigate and understand the controversies surrounding current and future technologies, and helps them make rational decisions when faced with situations in their own lives and at the voting booth. The approach is an interdisciplinary one, combining basic science, applied research, ethics, and decision-making processes. Topics include scientific fraud, recombinant DNA technologies, the human genome project, energy and land use, and toxic waste. This course is appropriate for both science and nonscience majors. (CSU/UC)

AA/AS Area C

BIOL 147  Food, People, and the Environment
(3 units)(No prerequisite. Advisory: Biology 110. Two lecture and three laboratory hours weekly.)

This course examines problems and solutions affecting the past, present and future of agriculture, the chief method of securing food from the environment and the basis of human civilization. Patterns of care and use of the major classes of agricultural resources will be surveyed, including domestication and genetic improvement of edible plants and animals, maintenance of soil fertility through manipulation of humus and individual plant nutrients, suppression of pests through chemical, biological and cultural techniques, and attempts to maximize efficiency in utilization of land, water, energy, labor, and capital. Effects of changes in demographics and socioeconomic conditions of producers and consumers of agricultural products will be discussed. Evolution and integration of production methods will be emphasized, through site-specific examples of functioning agricultural systems in Marin County, the rest of California, and the world. Special attention will be paid to the concept of sustainability and to the current debate between defenders of modern industrial agriculture and proponents of its alternatives, such as biodynamic, organic, and low-input agriculture. Includes field trips to selected agricultural areas of interest in Northern and Central California. (CSU/UC)

BIOL 148  Marin County Agriculture
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

This course focuses on one of Marin County’s most significant human activities in terms of use of land and other natural resources, preservation of a valuable way of life, generation of economic benefits and formation of the unique character of the local environment. The course examines agricultural challenges and accomplishments by production systems and locality. It offers general overview, historical background and explanation of important biological, social and economic processes, as well as contemporary insights provided by those currently involved in the Marin County agricultural scene. Systems studied may include beef and dairy, poultry, shellfish, flowers, fruits and vegetables, from planning and production through marketing and consumption, in both East and West Marin. Includes field trips to notable local farms. (CSU)

BIOL 159  Introduction to Aquatic Biology
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

A field and hands-on laboratory course on the natural history and ecology of both living and nonliving components of freshwater environments. This course is designed to give the student practical experience in the identification and interrelationships of local plant and animal species found in freshwater ecosystems. Biology majors gain field experience in interpreting basic concepts in ecology, biotic zonation, and survival through adaptation and natural selection. (CSU)

AA/AS Area A

BIOL 161  Field Botany
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

Introduction to the identification procedures, systematics, ecology, and natural history of bryophytes and vascular plants. Emphasis is on the identification and natural history of local plants native to Marin’s 14 plant communities. Laboratory investigations include hands-on analysis of vascular plant parts useful for identification purposes. Field explorations are used in understanding the ecology of local plant communities. (CSU)

BIOL 162  General Ecology
(3 units)(No prerequisite. Advisory: Biology 110. Two lecture and three laboratory hours weekly.)

Introduction to the ecology of organisms in their environment. Emphasis is on the ecology of global, regional and local environmental sustainability. Field explorations are used in understanding ecological concepts in relation to Marin’s biotic communities. (CSU/UC)

AA/AS Area A, CSU Area B-2, IGETC Area SB
BIOL 163  Ecology of Estuaries  
(3 units)(No prerequisite. Advisory: Biology 110. Two lecture and three laboratory hours weekly.)  
Special ecological study of the great San Francisco Bay estuary system of rivers, Delta, sloughs/marshes, lower bays, and Tomales Bay/Bolinas Lagoon habitats. Dynamics of natural ecology and man's encroachment/pollution are studied. (CSU)

BIOL 164  Introduction to Mammalogy  
(3 units)(No prerequisite. Advisory: Biology 110. Two lecture and three laboratory hours weekly.)  
Introduction to the natural history, ecology, and behavior of mammals. Emphasis is on the natural history of California mammals, techniques in studying mammals, tracking, and interpretation of mammal sign. Laboratory investigations include hands-on analysis of mammal anatomy and physiology. Field explorations are used in understanding mammalogy concepts in relation to their survival strategies. (CSU)

BIOL 165  The World of Insects  
(2 units)(No prerequisite. Advisories: Biology 110 and 165LA - LD. Two lecture hours weekly.)  
Insects are the largest group of organisms on earth today. This course is a general introduction to these diverse and amazing creatures. Topics to be covered include insect structure and function, history and evolution, habitats and adaptations, and ecological relationships with other organisms, including those of major economic importance to humans in the areas of agriculture, architecture, forestry, animal husbandry, medicine and public health. As befits such a hard-to-ignore group, insect roles in literature, folklore, philosophy, painting, sculpture and other arts will not be neglected. (CSU)

BIOL 165LA  Introduction to Insect Biodiversity  
(½ unit)(No prerequisite. Advisory: Biology 165. Four laboratory and two field-trip hours weekly for four weeks.)  
The amazing diversity of insects is a result of unique structural and functional features that can best be appreciated by close study of well-prepared specimens using proper magnification and illumination. This is a short course designed to present the basics necessary for further study of insect diversity. It also gives an overview of the major insect orders, and includes details of the earliest insects, mayflies, damselflies and dragonflies. (CSU)

BIOL 165LB  Biodiversity of Crickets, Scales and Hoppers  
(½ unit)(Prerequisite: Biology 165LA. Four laboratory and two field-trip hours weekly for four weeks.)  
The grasshoppers, katydids, crickets, cockroaches, stoneflies, earwigs, termites, mantids, and leaf and stick insects are among the most ancient of insects. The true bugs, hoppers, spittlebugs, psyllids, aphids, cicadas, thrips, scales, mealybugs and whiteflies came later. Yet all are very important in the modern world. This is a short course designed to present the basics necessary for further study of the diversity of these insects. (CSU)

BIOL 165LC  Biodiversity of Beetles, Lacewings, Antlions, Fleas and Flies  
(½ unit)(Prerequisite: Biology 165LA. Four laboratory and two field-trip hours weekly for four weeks.)  
It has been estimated that one of every five living things on earth is a beetle. But although beetles are considered the largest and most diverse group of insects, their distant relatives the lacewings and antlions are important and ferocious predators. For their parts, the flies are everywhere and have special interactions with humans, as do the fleas. This is a short course introducing the biodiversity of these insect groups. (CSU)

BIOL 165LD  Biodiversity of Butterflies, Moths, Caddis Flies, Wasps, Bees and Ants  
(½ unit)(Prerequisite: Biology 165LA. Four laboratory and two field-trip hours weekly for four weeks.)  
Butterflies and moths are among the showiest of insects. Wasps, bees and ants are often considered the most dangerous. Fly fishermen honor caddis flies. Yet these groups contain some of the most beneficial of insects, both to plants and to humans. This is a short course introducing the biodiversity of these insect groups. (CSU)

BIOL 167  Introduction to Herpetology  
(3 units)(No prerequisite. Advisory: Biology 110. Two lecture and three laboratory hours weekly.)  
Introduction to the natural history, ecology, and behavior of reptiles and amphibians. Emphasis is on the natural history of reptiles and amphibians of Western North America, techniques in studying reptiles, and field observation. Laboratory investigations include hands-on analysis of reptile and amphibian anatomy and physiology. Field explorations are used in understanding herpetology concepts in relation to survival strategies. (CSU)

BIOL 169  Introduction to Ornithology  
(3 units)(No prerequisite. Advisory: Biology 110. Two lecture and three laboratory hours weekly.)  
This course is designed to be an introduction to ornithology. The anatomy, ecology, behavior, and identification of birds will be explored through lectures, laboratories, slide presentations, and field trips. The biology of Marin County birds will be emphasized. (CSU)

BIOL 170  Biology of Marine Animals  
(3 units)(No prerequisite. Advisory: Biology 110. Two lecture and three laboratory hours weekly.)  
Introduction to the natural history, ecology, and behavior of marine animals. Emphasis is on the identification and natural history of marine intertidal invertebrates. Various local marine habitats will be investigated including rocky intertidal mudflats, sandflats, and estuaries. Laboratory investigations include hands-on analysis of invertebrate and vertebrate anatomy and physiology. Field explorations are used in understanding marine zoology in relation to their survival strategies. (CSU)
Biology

Biology of Marine Mammals

(3 units) (No prerequisite. Two lecture and three laboratory hours weekly.)

Taking an integrated approach to the biology of marine carnivores, cetaceans and sirenians, we use lecture, laboratory and field explorations to provide us with a framework for fundamental biological and ecological concepts. Topics include functional morphology, sensory systems, energetics, reproduction, communication and cognition, behavior, distribution, population biology, and feeding ecology. We also review the physiological adaptations that have enabled marine mammals to exploit their aquatic environment such as diving, thermoregulation, osmoregulation, and orientation. (CSU/UC)

Human Physiology

(5 units) (Prerequisites: Biology 110 and 110L and Chemistry 110. Students wanting to take Chemistry 110 concurrently, please contact the instructor. Three lecture and six laboratory hours weekly.)

This course involves the study of the structure and function of the human body. Emphasis will be placed on the physicochemical and homeostatic mechanisms occurring in the human body. The laboratory will introduce clinical and research techniques for studying and measuring various physiological parameters. (CSU/UC)

AA/AS Area A, CSU Area B-2, IGETC Area 5B, CAN BIOL 12, CAN BIOL 162

Physiology Laboratory Techniques

(1 unit) (No prerequisite. Corequisite: Biology 224. One lecture hour weekly.)

This is an optional course for students desiring further instruction in the use of laboratory equipment and application of physiology theory to the laboratory experiments and exercises conducted in Biology 224. (CSU)

AA/AS Area A

Fishery Biology

(3 units) (No prerequisite. Advisories: Biology 110, 116, and 162. Two and one-half lecture and one and one-half laboratory hours weekly.)

An introduction to the study of invertebrates and vertebrates that constitute the fishery industry of the world. Emphasis on local San Francisco Bay area species. Ichthyology will constitute the major area of study. (CSU)

General Marine Biology

(4 units) (Prerequisite: Biology 110. Class includes field trips. Field trips may meet earlier and run later than scheduled to take advantage of low tides. Three lecture and three laboratory hours weekly.)

This laboratory and field course is designed to give biology majors as well as nonmajors an overview of marine plant and animal communities. Topics investigated include fundamental physical oceanography, marine ecology, marine zoology, marine botany, and field studies. Emphasis is on the local marine communities comprising protected and unprotected rocky intertidal estuaries, salt marshes, sandflats, mudflats, and floating docks. Laboratory investigations include phytoplankton and zooplankton studies, fish identification and internal morphology, marine invertebrate identification, and marine algae preservation techniques. (CSU/UC)

AA/AS Area A, CSU Area B-2, IGETC Area 5B

Marine Ecology Field Studies

(2 units) (No prerequisite. One lecture and three laboratory hours weekly.)

This course is an introduction to the natural history and ecology of marine plants and animals. Emphasis is on the identification, evolution, life histories, and survival strategies of intertidal and subtidal organisms of the Pacific Northwest coast. Terrestrial systems such as temperate rain forests and redwood plant communities will be investigated to use as comparison with the marine systems. Field investigations include hands-on analysis of marine algae, invertebrate, vertebrate, and nonliving interrelationships. Human disturbances of Pacific Northwest ecosystems will be a central focus of our studies. (CSU)

Microbiology

(5 units) (Prerequisites: Biology 110 and 110L; plus Chemistry 110 or 114. Three lecture and six laboratory hours weekly.)

This course is primarily for biology and health science majors. It is a lecture/laboratory-based course with equal emphasis on both. The fundamentals of microbial taxonomy, ecology, anatomy, physiology, genetics, and biotechnology are covered. Viruses, bacteria, fungi, protists, and helminths are discussed. Emphasis is on the role that microorganisms play in human health and disease. (CSU/UC)

AA/AS Area A, CSU Area B-2, IGETC 5B, CAN BIOL 14

Geology and Biology of the Basin and Range and the Colorado Plateau

(3 units) (No prerequisite. Can be taken for credit as Biology 242 or Geology 242. However, credit will be awarded for only one course. A two-week field trip that includes seventeen and one-half lecture hours and thirteen, eight-hour field experiences.)

This course is a two-week field course through the Basin and Range and Colorado Plateau Provinces. It includes a raft trip down the Colorado or Green River. The geological and biological evolution of the area are explored through observation, experimentation, and study of the diverse abiotic and biotic contributors to the area. Course topics include: stratigraphy and structure; fluvial landforms and processes; species dispersion, radiation and evolution; ecology; and the art of fly-fishing. Through lectures and a broad range of field experiences, students will gain an understanding of the factors that shaped and continue to shape this unique area. May be taken four times for credit. (CSU)
BIOL 243  Natural History of Hawaii
(3 units)(Prerequisite: Biology 110 or Geology 120. Sixteen lecture hours and thirteen eight-hour field trips.)
A two-week field course on the Islands of Hawaii and Kauai. The geological and biological evolutions of the Hawaiian Islands are explored through observation, experimentation, and study of the diverse biotic and abiotic contributors to the islands. Course topics include formation of the islands; species dispersion, radiation, and evolution; ecology; and human occupation. Through lectures and a broad range of field experiences, students will gain an understanding of the basic tenets of island biogeography as exemplified by the Hawaiian-Emperor Chain. May be taken three times for credit. (CSU)

BIOL 244  Environmental Microbiology
(5 units)(Prerequisite: Biology 110 and 110L and Chemistry 110. Three lecture and six laboratory hours weekly.)
Microorganisms represent the origin of life on Earth, and cover the planet providing the biological basis for life. Environmental microbiology is the study of microorganisms that exist in natural and artificial habitats and their interaction with their physical and biological environments. Course topics include: microbial communities; water microbiology and public health; aquatic, soil, and aero microbiology; biotransformation; and biodegradation. This course is appropriate for anyone interested in microbiology or environmental science. (CSU/UC)

BIOL 245  Field Ecology of Marin
(1 unit)(No prerequisite. Three all-day field trips and eight lecture hours to be arranged.)
This course is designed to give the student practical experience in the identification and interrelationships of local plant and animal species. Climatological and geological features of Marin are also explored. May be taken four times for credit. (CSU)

BIOL 246  Field Ecology
(2 units)(Prerequisites: Biology 101 or 115 or concurrent enrollment. Students must complete forms expressing a desire to participate in the field trip. These forms are available from the Life Science Department in November and must be filed with that department by December 1. A ten-day field trip during the spring break and twelve lecture hours to be arranged.)
Observation of the characteristic plant and animal communities of the coastal redwood forest, the San Francisco Bay salt marsh, the Central Valley, the western slope of the Sierra Nevada, the “rain shadow” of the Western California Cold Desert, Owens Valley, Death Valley, and the Pacific coastal marine environment.
This course is designed to give biology majors field experience in interpreting basic concepts of ecology, biotic succession, and survival through adaptation and natural selection. May be taken four times for credit. (CSU/UC)

BIOL 247AB  Extended Field Studies
(1½ - 3 units)(No prerequisite unless specified in the class schedule. A seven-day field trip and eight lecture hours to be arranged for one and one-half units, and a fourteen-day field trip and sixteen lecture hours to be arranged for three units.)
A one- or two-week investigation of the natural history of various communities in Marin County or in another selected area of the Western hemisphere. May be taken four times for credit. (CSU)

BIOL 249  Directed Study
(1-3 units)(Limit to Enrollment: Sophomore standing; grade point average of 2.7 or higher in biology. Prior arrangement with the instructor is required. Three laboratory hours per unit weekly.)
Provides the student of science an opportunity to undertake a research program in a special field of biology. Requirements: weekly conferences, reports, and a final paper. May be taken for a total of six units. (CSU/UC w/limit)

BIOL 250  Scientific Research and Reporting
(1 unit)(No prerequisite. Advisories: Biology 110 and Geology 120. Can be taken for credit as Biology 250 or Geology 250. However, credit will be awarded for only one course. One lecture hour weekly.)
Scientific research and reporting is a hands-on, individualized course designed to walk learners step-by-step through a scientific research project of their choice. The final report of their findings will be delivered at a professional meeting. This course is designed for science majors that have completed the first year of their curriculum and desire a hands-on, real world experience in science. May be taken four times for credit. (CSU/UC)

BUS 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

BUS 97  Business English
(3 units)(No prerequisite. Three lecture hours weekly.)
This is a course in grammar, usage, editing, and punctuation specifically for students of business and the professions. It focuses on the conventions of standard written English and mechanics applied specifically in business, technical, and professional writing. This course is appropriate for students who deal with the language professionally, in the creation of business documents, editing, and transcription of oral language.

BUSINESS COURSES
BUS 101  Introduction to Business  
(3 units)(No prerequisite. Three lecture hours and one laboratory hour weekly.)
This survey course explores the history, environment and functional areas of business, and analyzes the following topics: comparative economic systems focused on capitalism, globalization, ethical behavior and social responsibility, business ownership, entrepreneurship, marketing, accounting, finance, information technology, environmental issues, and productivity. The course includes a management/economic computer simulation component designed to provide students with experience operating a simulated business. Can also be offered in a distance learning format. (CSU/UC)
AA/AS Area B, CSU Area D-7

BUS 104  Introduction to Marketing  
(3 units)(No prerequisite. Three lecture hours weekly.)
An introductory course to a vital business area, marketing is open to all students and is especially recommended for business majors. It is required for the general business major. Topics to be included are: marketing's role in society, the market structure, channels of distribution, retail institutions, wholesale institutions, product development, packaging, pricing, and promotion. Can also be offered in a distance learning format. (CSU)

BUS 107  Business Law  
(3 units)(No prerequisite. Three lecture hours weekly.)
Designed to give the student an understanding of the basic principles of business law and applications to typical business situations. Topics include law of contracts, agency and employment, negotiable instruments, personal property, bailments, sales of goods, real property, and partnerships. (CSU/UC)
CAN BUS 2

BUS 108  Introduction to International Business  
(3 units)(No prerequisite. Three lecture hours weekly.)
This course provides the basic tools and perspective necessary to understand the international business environment. Explores the changing nature of the primary business, economic, and political institutions. Explains the nature of the transnational, foreign trade, foreign exchange and world capital and money markets. Will attempt to better understand the problems and opportunities created in a world comprised of post-industrial, developing, and less-developed nations. Focus is upon what the individual will need to know and understand to be an effective learner and performer in our rapidly developing world economy. (CSU)

BUS 109  Business and Economics Problem Solving  
(1½ units)(No prerequisite. Advisory: Computer Information Systems 118. Two lecture and three laboratory hours weekly for eight weeks.)
The focus of this course is the application of mathematical principles to the solution of basic business and economic problems using computer spreadsheet software. The course includes problems in financial analysis, basic business statistics, compound interest and annuities, investments, economic growth and inflation. Students will learn to compute problem results as well as to present solutions in a concise informative manner. (CSU)

BUS 112A  Financial Accounting IA  
(2 units)(No prerequisite. Four lecture hours and one laboratory hour weekly for eight weeks.)
An introduction to accounting practice, principles, and analysis. This course is basic for students in accounting, business administration, economics, law, and other professions. Also it should be the first course in accounting theory for vocational bookkeepers, as well as small business people needing basic accounting theory. This first eight-week course covers the accounting cycle for a service enterprise and for a merchandising enterprise, preparation of financial statements, and internal control. The course includes a computerized tutorial. (CSU/UC)
CAN BUS 2 = Bus 112A + 112B

BUS 112B  Financial Accounting IB  
(2 units)(No prerequisite. Advisory: Business 112A. Four lecture hours and one laboratory hour weekly for eight weeks.)
An introduction to accounting practice, principles, and analysis. This is a continuation of Business 112A designed for business and other transfer students. This course is basic for students in accounting, business administration, economics, law, and other professions. This second eight-week course covers accounting for assets, liabilities, and the underlying framework for accounting concepts, incorporation and corporate terminology, cash flow statements, and financial statement analysis. (CSU/UC)
CAN BUS 2 = Bus 112A + 112B

BUS 113  Managerial Accounting  
(5 units)(Prerequisite: Business 112A and 112B. Five lecture hours weekly.)
This course covers fund flow analysis, basic managerial cost concepts and developments in contemporary managerial accounting, cost accounting systems, cost-volume-profit relationships, budgetary planning and control, responsibility accounting, performance evaluation through standard costs and incremental analysis and capital budgeting. (CSU/UC)
CAN BUS 4
BUS 114  Beginning Computerized Accounting  
(1½ units)(No prerequisite. Advisory: Business 112A. Two lecture and three laboratory hours weekly for eight weeks.)  
A first course in the operation of computerized accounting software. This course is designed for business entrepreneurs who will be using a computerized accounting system in their business as well as students training to be professional accountants. Subjects will include an overview of the software, setting up a company, entering, working with lists, setting up inventory, paying bills, payroll, and preparation of reports and graphs. (CSU)

BUS 121  New Venture Creation  
(3 units)(No prerequisite. Three lecture hours and one laboratory hour weekly.)  
This is an introductory course in new venture creation/entrepreneurship designed to create knowledge, skills, awareness, and involvement in the process of starting, operating, and managing a small firm. The aim is to guide students in discovering the concepts of entrepreneurship and the competencies, skills, know-how, experience, resources, and techniques that are necessary to achieve success. The course deals with the driving forces of entrepreneurship, the environment and competition, physical, capital and human resources, developing a business plan, accounting and finance for smaller firms, market potential, how to practice marketing, management and legal aspects. Students working in teams are required to develop and write a business plan. (CSU)

BUS 127  Create a Business Plan  
(1½ units)(No prerequisite. Two lecture and three laboratory hours weekly for eight weeks.)  
This course provides a hands-on approach for actively developing an operational business plan. The process, using computer software, involves opportunity recognition, research, analysis, and completing each section of a business plan including the cover letter, the executive summary, company and industry overviews, market strategy and tactics, financial analysis (profit and cash flow forecasts), location, physical facilities, capital spending, purchasing, and promotion. Students receive individual attention regarding their business plans. (CSU)

BUS 129  The Art of Selling  
(1½ units)(No prerequisite. Two lecture and three laboratory hours weekly for eight weeks.)  
Through active participation students/entrepreneurs learn how to gain and maintain a competitive edge by developing effective sales strategies and techniques. The course covers all phases of the selling process. Participants learn the "how" as well as the "why" of selling and then have an opportunity to apply these techniques in a critiqued videotaped sales presentation. (CSU)

BUS 131  Supervision and Management  
(1½ units)(No prerequisite. Three lecture hours weekly for eight weeks.)  
This is an introductory course covering the core concepts and current issues related to supervision and management. Students will learn how to assume supervisory responsibility and how to apply management principles in today's rapidly changing world of work. (CSU)

BUS 132  Human Resource Management  
(1½ units)(No prerequisite. Three lecture hours weekly for eight weeks.)  
This is an introductory course designed to give employers and employees an overview of the various functions within the human resource management field. (CSU)

BUS 133  Diversity in the Workplace  
(1½ units)(No prerequisite. Three lecture hours weekly for eight weeks.)  
This course teaches students how to manage diversity. It broadens their viewpoints, beliefs, and attitudes; promotes an understanding of widely varying and equally valid world views, and prepares future leaders to effectively collaborate with the diverse groups they will encounter in the work and market places. (CSU)

BUS 134  Human Relations  
(1½ units)(No prerequisite. Three lecture hours weekly for eight weeks.)  
This course is designed to acquaint the student with human relations and motivation in business and the implications of business practices as they apply to individual employees and supervisors. (CSU)

BUS 135  Managing Change and Innovation  
(1½ units)(No prerequisite. Three lecture hours weekly for eight weeks.)  
This course is designed to develop the skills necessary to manage change and innovation within an organization which is dynamic, complex, and often unpredictable. Students will learn how to help people and organizations learn and renew themselves continuously. (CSU)

BUS 137  Managing Groups and Teams  
(1½ units)(No prerequisite. Three lecture hours weekly for eight weeks.)  
This course is designed for anyone who wishes to learn the skills of leading and facilitating both the interpersonal relationships and the tasks of groups and teams. Primarily focused on the workplace, the skills can also be used in other settings, including working with volunteer groups. (CSU)
BUS 139  Selected Topics
(½-6 units)(Please see Selected Topics category.)
(CSU w/limit)

BUS 141  Intermediate Business English
(2 units)(Prerequisite: Business 97. Two lecture hours weekly.)
This course presents grammar, usage, punctuation, sentence
rhetoric, and error recognition and editing on a professional
level to business students who are planning careers that de-
mand precise skills in independent writing, proofreading, and
transcription of oral language. The course emphasizes syntax,
diction, structure, and editing appropriate for business com-
communications, general and technical report writing, and medical
and court reporting transcriptions. It is a required course in the Court
Reporting Program. (CSU)

BUS 142  Writing Business Correspondence
(1½ units)(Prerequisite: Business 97. Three lecture hours weekly for
eight weeks.)
This course deals specifically with the composition, editing,
and production of memos, letters of inquiry, claim letters, adjust-
ment letters, and e-mail. Students will be able to understand the
purposes of both internal and external correspondence and will
be able to compose, edit, and format such documents. The pro-
ducts of students' efforts may be compiled as part of a professional
portfolio. (CSU)

BUS 144  Business Communication
(3 units)(No prerequisite. Advisory: Business 97. Three lecture hours
weekly.)
This course emphasizes the student's ability to apply effective
writing technique and strategies to business communication
problems found in organizations. Students will analyze cases,
then organize and prepare various business documents such
as resumes, letters, memoranda, reports, business plans, and
proposals. Electronic communication tools are discussed and
oral presentations are made. Can also be offered in a distance
learning format. (CSU)

BUS 145  Internet Research and Presentation
Skills for Business
(1½ units)(No prerequisite. Advisory: Computer Information Sys-
tems 101. Two lecture and three laboratory hours weekly for eight
weeks.)
This course uses the Internet and World Wide Web to help
students gain the research and interpretation skills needed for
problem solving in business. Class activities focus on interactive
search projects, resulting in written and oral presentations of
project findings using presentation software. (CSU)

BUS 146  Business Presentation Tools
(1½ units)(No prerequisite. Advisory: Computer Information Sys-
tems 101. Two lecture and three laboratory hours weekly for eight
weeks.)
This course introduces business presentation graphics soft-
ware. Students will learn to create, edit, save, and print a variety
of business presentations including those focused on sales strat-
egy, promotion, training, and progress reports. (CSU)

BUS 249  Directed Study
(1-3 units)(Limit to Enrollment: Successful completion of twelve
units in business and/or economics. Hours to be arranged.)
This course is designed to give the student an opportunity for
independent study. The student plans a project under the guid-
ance of a member of the department. Evaluation is through re-
ports and conferences and a final written report of the student's
findings. This course may be taken more than once for credit.
(CSU w/limit)

BUSINESS OFFICE SYSTEMS
COURSES

BOS 35  Web Quest — Beginning Internet Skills
(1 unit)(No prerequisite. Three laboratory hours weekly.)
This class offers an introduction to computer and Internet
domain, Internet searches, and the use of e-mail, Web radio,
and word processing to enhance basic Internet research projects
called Web-quests.

BOS 39  Selected Topics (Nondegree
Applicable)(½-6 units)
(Please see Selected Topics category.)

BOS 44  Skill Building for Keyboarders
(1 unit)(No prerequisite. Advisory: Knowledge of keyboard and abil-
ity to type by touch method. Three laboratory hours weekly.)
In this course students will concentrate on accuracy and speed
drills to improve keyboarding skills. Diagnostic tests are given to
determine weaknesses. Timings are taken on a regular basis so
progress can be measured. May be taken four times for credit.

BOS 60A  Beginning Computer Keyboarding
(ESL)
(1 unit)(No prerequisite. Three laboratory hours weekly.)
This course is recommended for any English as a Second Lan-
guage student needing to acquire alphabetic and numeric key-
boarding techniques for computer work. Students will learn how
to keyboard by touch at a minimum speed of 20 words-a-minute.
BOS 60B  Beginning Computer Keyboarding (ESL)  
(1 unit)(No prerequisite. Advisory: Business Office Systems 60A. Three laboratory hours weekly.)
This course is recommended for any English as a Second Language student needing to improve keyboarding speed and accuracy, and wishing to learn basic letter and report formatting. Students will learn how to keyboard by touch at a minimum speed of 25 words-a-minute. Students will also learn how to set up letters and reports in good form. Basic editing skills are practiced.

BOS 60C  Beginning Computer Keyboarding (ESL)  
(1 unit)(No prerequisite. Advisory: Business Office Systems 60B. Three laboratory hours weekly.)
This course is recommended for any English as a Second Language student needing to improve keyboarding speed and accuracy, and wishing to learn additional letter and report formatting skills, plus business memos. Students will learn how to keyboard by touch at a minimum speed of 30 words-a-minute. Students will also learn how to set up and edit letters, reports, and memos.

BOS 70A  Spelling  
(1 unit)(No prerequisite. Three laboratory hours weekly.)
A self-paced course designed to help the business student in the improvement of spelling problems. The programmed format allows students to proceed at their own rate with the aid of a diagnostic test and review tests.

BOS 70B  Vocabulary Building  
(1 unit)(No prerequisite. Three laboratory hours weekly.)
A self-paced course designed to help the business student achieve a command of the vocabulary needed for business courses. Covers Latin and Greek derivatives, descriptive, and action words.

BOS 70C  Programmed Writing Skills  
(1 unit)(No prerequisite. Three laboratory hours weekly.)
This self-paced course, covering writing skills for the business writer, stresses how to write clearly and effectively with correct mechanics.

BOS 76  Electronic Ten-Key Calculating Machines  
(1 unit)(No prerequisite. Three laboratory hours weekly.)
Students learn the basic operation of electronic printing calculators and how to input numbers using the ten-key touch method. Common business problems are used to train students on the efficient use of the electronic calculator.

BOS 99  Business Applications Laboratory  
(½ unit)(No prerequisite. One and one-half laboratory hours weekly.)
A lab course in which students work with various business applications using a personal computer and application software. Students will complete a business-related project such as a business simulation, a financial projection, bookkeeping project, a business plan, or an accounting practice set. May be taken four times for credit.

BOS 114  Beginning Word Processing  
(1½ units)(No prerequisite. Advisory: Ability to keyboard by touch. Two lecture and three laboratory hours weekly for eight weeks.)
This beginning course in Microsoft Word develops competency in creating, editing, formatting, saving, and printing a variety of business and personal-use documents. Topics include creating and editing letters, memos, reports, tables, and mail merge. In addition, students complete several desktop publishing assignments and use Word to create a Web site. Students are shown how to integrate Word documents with other office programs. (CSU)

BOS 115  Intermediate Word Processing  
(1½ units)(No prerequisite. Advisory: Business Office Systems 114. Two lecture and three laboratory hours weekly for eight weeks.)
This Microsoft Word course develops competency in using intermediate to advanced features of Word. Students will create, format, edit, save, and print a variety of business and personal-use documents. Topics covered include formatting with styles, sharing information with other programs, working with and sharing long documents, working with graphics, creating and modifying charts, creating and using forms, and customizing Word with Auto Text and Macros. Students complete several desktop publishing projects, using the Internet to access multimedia resources. (CSU)

BOS 120  Computer Keyboarding  
(1 unit)(No prerequisite. Three laboratory hours weekly.)
This course is recommended for any student needing to acquire alphabetic and numeric keyboarding skills for computer work. Students will learn how to keyboard by touch at a minimum speed of 20 words-a-minute. May be taken four times for credit. (CSU)

BOS 122A  Machine Transcription  
(1 unit)(No prerequisite. Advisories: Touch typing and limited to the number of transcription machines available. Three laboratory hours weekly.)
This course is designed to prepare students to become efficient operators of transcribing machines and to be able to transcribe mailable business correspondence from predictated material on the computer. Emphasis will be placed on the mechanics of letter styles, grammar, punctuation, spelling, word division, vocabulary, and proofreading. (CSU)
BOS 122B Machine Transcription
(1 unit) (No prerequisite: Advisory: Business Office Systems 122A and limited to the number of transcription machines available. Three laboratory hours weekly.)
This course is designed to further improve a student's competency in transcribing documents from transcription tapes while working on the computer. Emphasis will be placed on increased transcription speed and refinement of transcription skills. A thorough review of punctuation rules and practice in applying those rules is included. (CSU)

BOS 122C Machine Transcription
(1 unit) (No prerequisite. Advisory: Business Office Systems 122B and limited to the number of transcription machines available. Three laboratory hours weekly.)
This course is designed to further improve a student's competency in transcribing documents from transcription tapes while working on the computer. Emphasis will be placed on an improvement in transcription speed and the quality of the transcribed documents. Grammar and punctuation rules will continue to be reinforced as well as specialized business vocabulary. (CSU)

BOS 139 Selected Topics
(½-6 units) (Please see Selected Topics category.) (CSU w/limit)

BOS 163A Professional Office Procedures
(1 unit) (No prerequisite. Three laboratory hours weekly.)
This is a short course which presents methods and techniques basic to the efficient performance of office services, including interpersonal communications, document preparation, mail processing, meeting arrangements, travel, time management, and telephone communications. This course is offered through a combination of instructor-assisted and self-paced, audiovisual learning methods, including a text CD and Internet access. (CSU)

BOS 163B Records Management
(1 unit) (No prerequisite. Three laboratory hours weekly.)
In addition to learning basic alphabetic, numeric, subject, and geographic filing methods on a microcomputer, students will be introduced to careers in records management. This is a self-paced course. (CSU)

BOS 163C Travel and Conference Arrangements
(1 unit) (No prerequisite. Three laboratory hours weekly.)
This course is designed to enable students to become proficient in planning and arranging business travel, and setting up business conferences. This course develops skills in choosing airline flights, making reservations, arranging hotel accommodations and ground transportation, and maintaining accurate follow-up records. This is a self-paced course. (CSU)

BOS 213 Internship in Business and Information Systems
(3 units) (Prerequisite: Business and Information Systems 115. Two lecture and three laboratory hours weekly.)
This course bridges the gap between the classroom and the business and information systems industry by providing an on-campus lecture class coupled with a short-term internship in which students may work at a job site such as a medical office, legal office, or general business office. All assignments will be accomplished in a "real-life" context characterized by workgroup activities, multiple projects under deadline, and collaborative effort. Internships are not guaranteed. Projects may be suitable for student portfolios. May be taken four times for credit. (CSU)

BOS 230A Medical Terminology
(1 unit) (No prerequisite. Three laboratory hours weekly.)
Designed for medical secretary or medical assisting students, this course helps students become skillful in mastering word parts to form medical terms found in basic medical terminology. Students use a computer program to learn, analyze, and interpret most frequently used medical terms. (CSU)

BOS 230B Medical Terminology
(1 unit) (No prerequisite. Advisory: Business Office Systems 230A. Three laboratory hours weekly.)
A continuation of Business Office Systems 230A, this course helps students become skillful in mastering additional word parts to form medical terms used in medical terminology. Students use a computer program to learn and practice applying frequently used medical terms. (CSU)

BOS 231A Medical Transcription
(1 unit) (No prerequisite. Advisory: Business Office Systems 120 and limited to the number of transcription machines available. Three laboratory hours weekly.)
This course is designed to train transcriptionists to quickly and accurately transcribe four basic report types: office visit/clinic note, history and physical examination, discharge summary, and consultation. Students will use a transcription machine and a computer for completing their assignments. (CSU)

BOS 231B Medical Transcription
(1 unit) (No prerequisite. Advisory: Business Office Systems 231A and limited to the number of transcription machines available. Three laboratory hours weekly.)
This course is designed to further improve the transcriptionist's speed and accuracy while transcribing medical reports using a transcribing machine and a computer. At an entry level, students will transcribe hospital, physician office, and psychiatric facility reports. In addition, students will continue to transcribe discharge summary reports learned in Business Office Systems 231A. (CSU)
BOS 231C  Medical Transcription
(1 unit)(No prerequisite. Advisory: Business Office Systems 231B and limited to the number of transcription machines available. Three laboratory hours weekly.)

A continuation of Business Office Systems 231A and B, this course is designed to bring together the skills the transcriptionist has learned and practiced in the first two units. A variety of reports in challenging formats are presented for the student to experience "real-life" situations. (CSU)

BOS 249  Directed Study
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

CHEMISTRY COURSES


Letter grade or credit/no credit option: All other courses.

In general, courses required for a transfer student's four-year major should be taken on a letter grade basis.

The courses marked with two asterisks (**), Chemistry 110, 114 and 131, require that on the FIRST day of instruction, the students present to the instructor confirmation that the prerequisite of the course has been met.

Chemistry 105, 105L, 110 and 114 are one-semester courses that can satisfy the general education requirements.

Chemistry 114 and 115 represent one year of chemistry for most baccalaureate programs in nursing, health science, laboratory and medical technicians, physical therapy, and nonscience majors.

Chemistry 131, 132, 132E represent one year of chemistry for biological science, physical science, engineering and preprofessional (medical, veterinary, and pharmacy) majors.

CHEM 105  Chemistry in the Human Environment
(3 units)(No prerequisite. Three lecture hours weekly.)

A nonmathematical course for liberal arts and nonscience majors, exploring chemistry in relation to society. A general introduction and discussion of the development and manifestations of concepts of chemistry and their applications in our environment including living systems. Special considerations will be given to current topics, environmental issues, energy production, nutrition, medicine, and consumer products. Can also be offered in a distance learning format. (CSU/UC)

AA/AS Area A, CSU Area B-1, IGETC Area 5A

CHEM 105L  Chemistry in the Human Environment: Laboratory
(1 unit)(Prerequisite: Chemistry 105 or concurrent enrollment in Chemistry 105. Three laboratory hours weekly.)

An optional laboratory-demonstration course to accompany Chemistry 105. The combination of Chemistry 105 and 105L will meet general elective requirements for a physical science with laboratory. (CSU/UC)

AA/AS Area A, CSU Area B-1, IGETC Area 5A

CHEM 110**  Chemistry for Allied Health Sciences
(5 units)(Prerequisite: Eligibility for Math 101 or completion of Math 95 or Math 95B. Four lecture and three laboratory hours weekly.)

This is an introductory one-semester survey of the fundamental concepts and laboratory techniques of general, organic, and biochemistry with emphasis on the processes of the human body.

This course is designed to meet admission requirements for the A.S. degree in Registered Nursing and other allied health sciences. It also fulfills a general elective requirement in physical sciences. (CSU)

AA/AS Area A, CSU Area B-1

CHEM 114**  Introduction to Chemistry
(5 units)(Prerequisite: Eligibility for Math 103. Four lecture and three laboratory hours weekly.)

This course covers problem-solving techniques using dimensional analysis, basic principles of inorganic chemistry, and elementary qualitative and quantitative laboratory experiments. This course is designed to prepare students for Chemistry 115 and Chemistry 131. It satisfies a California State University general education requirement in physical sciences as well as a requirement by COM nursing program.

Chemistry 114 and Chemistry 115 represent one year of chemistry for most baccalaureate programs in nursing, health sciences, physical therapy, laboratory and medical technology, as well as non-science majors. (CSU/UC)

AA/AS Area A, CSU Area B-1, IGETC Area 5A, CAN CHEM 6
CHEM 115  Survey of Organic and Biochemistry  
(4 units) (Prerequisite: Chemistry 114. Limit to Enrollment: Not open to those who have had Chemistry 231. Three lecture and three laboratory hours weekly.)

This is a one-semester survey of the classes of organic compounds with emphasis on materials of interest to students of biological sciences. The chemistry and metabolism of proteins, carbohydrates, lipids, and nucleic acids are stressed. This course is intended for dental hygiene, home economics, nursing (baccalaureate program), health science, laboratory and medical technology, preoptometry, some predental and nonphysical science majors.

Chemistry 114 and 115 represent one year of chemistry for most baccalaureate programs in nursing, health science, laboratory and medical technology, and nonscience majors. (CSU/UC)

CHEM 131**  General Chemistry I  
(5 units) (Prerequisites: Chemistry 114 or satisfactory score on chemistry placement test and Math 103 or satisfactory score on math placement test. Three lecture and six laboratory hours weekly.)

Fundamental principles of chemistry including such topics as atomic theory, nomenclature, thermochemistry, bonding, structure and polarity, stoichiometry, gases, liquids and solids, intermolecular forces, solutions, and a brief introduction to organic chemistry and biochemistry. This is not an introductory course. Students are assumed to have a good grasp of certain chemical and mathematical concepts, as well as prior laboratory experience. (CSU/UC)

AA/AS Area A, CSU Area B-1, IGETC Area 5A, CAN CHEM 2, CAN CHEM SEQ A = Chem 131 + 132

CHEM 132  General Chemistry II  
(5 units) (Prerequisite: Chemistry 131. Four lecture and three laboratory hours weekly.)

This course is a continuation of Chemistry 131, emphasizing kinetics, thermodynamics, aqueous solution equilibriums, electrochemistry, and selected topics from: nuclear chemistry, descriptive inorganic chemistry, materials, metals, and coordination compounds. (CSU/UC)

CAN CHEM 4, CAN CHEM SEQ A = Chem 131 + 132

CHEM 132E  General Chemistry II, Lecture Only  
(3 units) (Prerequisite: Chemistry 131. Three lecture hours weekly.)

Lecture material of Chemistry 132 for those engineering and science majors who need eight units of general chemistry with laboratory for those who need a total of eight units, such as some biology, environmental science, health, and chemical engineering majors. (CSU/UC)

CHEM 139  Selected Topics  
(½-6 units) (Please see Selected Topics category.) (CSU/UC w/limit)

CHEM 231  Organic Chemistry I  
(5 units) (Prerequisite: Chemistry 132. Advisory: A college-level English course. Three lecture and six laboratory hours weekly.)

The first semester of the one-year organic chemistry course for chemistry, biology, biochemistry, chemical engineering, environmental and health sciences, premedical, and predental majors. (CSU/UC)

CHEM 232  Organic Chemistry II  
(5 units) (Prerequisite: Chemistry 231. Three lecture and six laboratory hours weekly.)

The second semester of the one-year organic chemistry course including laboratory for students majoring in chemistry, biochemistry, and most premedical and predental curricula. Students who need only eight units of organic chemistry, see Chemistry 232E. (CSU/UC)

CHEM 232E  Organic Chemistry II, Lecture Only  
(3 units) (Prerequisite: Chemistry 231. Three lecture hours weekly.)

The second semester of the one-year organic chemistry course without laboratory for those who need a total of eight units, such as some biology, environmental science, health, and chemical engineering majors. (CSU/UC)

CHEM 249  Directed Study  
(1-3 units) (Limit to Enrollment: Chemistry 131 with a grade of “B” or higher. Prior arrangement with instructor is necessary.)

A course designed to give the student an opportunity to participate in a research project, with emphasis on original work in the investigation and application of principles of chemistry.

The student will prepare a formal written outline of the extent and objectives of study, conferring with instructor to determine appropriate credit and criteria for submission prior to normal registration. During their studies, students must confer weekly with the instructor who may revise terms and will determine final credit and grade. This course may be taken more than once for credit. (CSU/UC w/limit)

CHINESE COURSES

Can be taken for a letter grade or credit/no credit.

CHIN 101  Elementary Chinese Mandarin I  
(5 units) (No prerequisite. Four lecture and three laboratory hours weekly.)

The primary goal of this course is to help students develop proficiency in listening and speaking skills and a foundation in literacy skills. At the same time, students will also gain knowledge and appreciation of Chinese culture. The acquisition of Chinese/Mandarin language skills and an appreciation of China’s role in the global community are goals of the course. (CSU/UC)

AA/AS Area C, UC Language Other Than English
CHIN 102 Elementary Chinese Mandarin II
(5 units) (Prerequisite: Chinese 101. Four lecture and three laboratory hours weekly.)
This is the second semester in Chinese Mandarin grammar. The goals are to communicate in Mandarin through the development of skills in speaking, understanding, reading and writing, and to develop an appreciation of the Chinese culture. (CSU/UC)

CHIN 110 Conversational Chinese (Mandarin)
(4 units) (No prerequisite. Three lecture and three laboratory hours weekly.)
This class offers an intensive study of practical Chinese conversation, designed for students who wish to acquire skills of the spoken language in modern colloquial Mandarin for travelers and those doing business dealings in or with China. There will be oral practice in speaking and understanding Chinese through the use of videos, audiocassettes, and other audiovisual packages related to daily working environment and life. Topics will include: everyday conversation among in-group (husband-wife, friend-friend, among the family), everyday conversation between out-groups (superior-inferior, between the unknowns), non-verbal communications and culturally correct Chinese conversation. (CSU)

CHIN 112 Conversational Chinese (Mandarin) II
(4 units) (Prerequisite: Chinese 110.) Three lecture and three laboratory hours weekly.
This course includes the use of modern colloquial Chinese in conversation and the study of elementary grammar, designed for students who want to learn at a faster pace in the spoken language with a minimum of formal grammar. Use of audio materials improves accuracy and fluency in pronunciation. (CSU)

COMM 39 Selected Topics (Nondegree Applicable)
(½-6 units) (Please see Selected Topics category.) (CSU)

COMM 110 Introduction to Mass Communication
(3 units) (No prerequisite. Advisory: Social Science 125. Can be taken for credit as Communications 110 or Journalism 110. However, credit will be awarded for only one course. Three lecture hours weekly.)
This is a critical history survey of mass media from a humanities and social science perspective including print (newspapers, magazines, books), broadcast (radio and television), film, audio recording, images, news gathering and reporting, public relations, advertising, media rights and responsibilities, media ethics and impact, audience and feedback, cybermedia, and global media. Students will examine form, content, and consequences of mass media in our society. Designed for general education, career exploration, and consumer understanding of the interaction and influences among and between media and our culture. Can also be offered in a distance learning format. (CSU/UC)

COMM 139 Selected Topics
(½-6 units) (Please see Selected Topics category.) (CSU w/limit)

COMM 160 Images of Women and Minorities in American Media
(3 units) (No prerequisite. Can be taken for credit as Communications 160 or Journalism 160. However, credit will be awarded for only one course. Three lecture hours weekly.)
This is a course designed to help students understand the relationship between the stereotypical and predominant images of women and minorities that are portrayed in American media by the dominant white male culture, and how these images affect our perceptions of these groups. The course takes substantial account of African Americans, Asian Americans, Latino Americans, and Native Americans. It also studies women as a separate group. Students will analyze the stereotypical and predominant images of each group that are portrayed in motion pictures, radio, recorded music, and television by the dominant culture, and compare and contrast these images with the individual and subordinate images that each group portrays of itself. (CSU/UC)

CIS 39 Selected Topics (Nondegree Applicable)
(½-6 units) (Please see Selected Topics category.)

CIS 101 Introduction to Personal Computers and Operating Systems
(1½ units) (No prerequisite. Two lecture and three laboratory hours weekly for eight weeks.)
This introductory course in the operation of the personal computer and its' operating system is designed for beginning students with very little or no previous exposure to microcomputers. Students will be introduced to the hardware components, systems software, and applications programs of a personal computer. Through both lecture and laboratory experience, students will gain the skills and confidence necessary to succeed in additional application training courses in spreadsheets, database design, word processing, and Web page construction as well as the transfer level comprehensive computer concepts course, CIS 110 – Introduction to Computer Information Systems. (CSU)
CIS 110  Introduction to Computer Information Systems
(3 units)(No prerequisite. Three lecture hours and one laboratory hour to be arranged weekly.)
This is an introductory survey of the needs for and roles of computer information systems within organizations. Emphasis is on computer requirements for organizations, history, hardware, programming, systems development, personal computers, Internet, and networks. Students will work with personal computers using application software for word processing, spreadsheets, and databases. Programs will be written and run in a high level language. This course is of interest to students in social sciences, humanities, vocational technical education, and business. Can also be offered in a distance learning format. (CSU/UC)

CIS 113  Presentations and Publications
(1½ units)(No prerequisite. Advisory: Computer Information Systems 101. Two lecture and three laboratory hours weekly for eight weeks.)
This course introduces the fundamental design and layout requirements for the creation of effective computer-generated presentations and printed documents for business. The course's lecture component focuses on the operation of software that aids in the creation of color presentations, business graphics, and standard printed documents (e.g., stationery, business cards, flyers, and brochures). The lab component allows students to learn and practice the operation of at least one of three software packages (presentation, business graphics, and page layout). Basic layout, composition, and issues regarding typography, use of color, and choice of various output media are the underlying and unifying topics for the course. (CSU)

CIS 114  Print Design and Layout
(1½ units)(Prerequisite: Computer Information Systems 113. Two lecture and three laboratory hours weekly for eight weeks.)
This course introduces the student to the operation of professional-level print design and layout software for the production of documents such as business forms, brochures, newsletters, posters, flyers, business identity materials, and other printed pieces. The course does not present fundamental design concepts per se; rather, it focuses on the functions of the tools of design, such as layout software and complementary graphics editing software. In addition, students will learn about the print publishing cycle, its component parts and its contributing experts. (CSU)

CIS 115  Print Production
(2 units)(Prerequisite: Computer Information Systems 114. Three lecture and three laboratory hours weekly for eight weeks.)
This course follows CIS 114 in a sequence leading to an internship assignment or entry-level work in the digital print publishing industry. In this course, students use software tools (design and layout programs, graphic editing software, text editing software) to design and produce documents ready for the press. Students will work with computers configured in a local area network with shared resources, practice basic operations of vector and bitmapped graphics software, complete production jobs using professional-level layout software, and apply new terms and concepts of the digital publishing industry in planning and spec-ing print production jobs. (CSU)

CIS 117  Introduction to Database Design and Programming
(1½ units)(No prerequisite. Advisory: Computer Information Systems 101. Two lecture and three laboratory hours weekly for eight weeks.)
This is a first course in the design and installation of a database for personal computers. Students will use a personal computer database software program to create and program database applications. (CSU)

CIS 118  Introduction to Spreadsheet Design
(1½ units)(No prerequisite. Advisory: Computer Information Systems 110 or 111. Two lecture and three laboratory hours weekly for eight weeks.)
In this first course in the design and application of spreadsheets for personal computers, students will use a personal computer spreadsheet software program to design, create, and use spreadsheets for accounting, and other business applications. (CSU)

CIS 122  Networking Essentials
(1½ units)(No prerequisite. Advisory: Computer Information Systems 101. Three lecture hours weekly for eight weeks.)
This course will cover the basic concepts of networks, including hardware, planning, implementation, and troubleshooting through the development of a case study. (CSU)

CIS 126  Introduction to Windows
(1½ units)(No prerequisite. Advisory: Computer Information Systems 101. Two lecture and three laboratory hours weekly for eight weeks.)
This course provides an introduction to Windows for personal computers. Topics include Windows environment, menus and dialog boxes, folder management, Explorer, disk maintenance, and other Windows tools. (CSU)
CIS 127  Intermediate Database Design  
(1 ½ units)(Prerequisite: Computer Information Systems 117. Two lecture and three laboratory hours weekly for eight weeks.)  
This is a course extending students' database application development knowledge using Access. Students will concentrate on advanced topics and techniques such as designing complex forms and reports, customizing the user interface, action queries and SQL, using Visual Basic for Applications, error handling, ActiveX Controls, security, and connecting to the Web. (CSU)

CIS 128  Intermediate Spreadsheet Design  
(1 ½ units)(No prerequisite. Advisory: Computer Information Systems 118. Two lecture and three laboratory hours weekly for eight weeks.)  
This is a course that will further prepare students in their ability to create and to use accurate electronic spreadsheets on a personal computer. Students will learn techniques of designing business-oriented spreadsheets on a personal computer. Students will learn how to plan, write, and execute program codes to manipulate a data management software package to meet management, marketing, and other business needs. (CSU)

CIS 137  Advanced Database Design  
(1 ½ units)(No prerequisite. Advisory: Computer Information Systems 127. Two lecture and three laboratory hours weekly for eight weeks.)  
This is a course that will further prepare students in their ability to design and implement database applications. Database applications will be created using development tools to integrate information from other applications, analyze data, utilize Internet capabilities, include forms for data input and validation, produce custom reports, and integrate databases for workgroups. (CSU)

CIS 141  Introduction to HTML Programming  
(1 ½ units)(No prerequisite. Advisory: Computer Information Systems 110 or 101. Two lecture and three laboratory hours weekly for eight weeks.)  
Hypertext Markup Language (HTML) is the language of the Web. In this class students will learn how to design, code, and implement Web pages using HTML. The focus of this beginning class will be creating pages with textual and limited inline image data and links for both Internet and Local Area Network Intranet applications. (CSU)

CIS 142  Intermediate HTML and Scripting  
(1 ½ units)(No prerequisite. Advisory: Computer Information Systems 141. Two lecture and three laboratory hours weekly for eight weeks.)  
This class is a continuation of CIS 141. Students will build on their knowledge of HTML and learn elementary client-side programming in JavaScript to add animation and interactive data exchange to Web pages. (CSU)

CIS 143  Designing Web Sites  
(1 ½ units)(No prerequisite. Advisory: Computer Information Systems 142. Two lecture and three laboratory hours weekly for eight weeks.)  
This course teaches students how to design and implement Web sites using Microsoft FrontPage. Students who understand how to use a simple text editor to develop source documents incorporating HTML, JavaScript, DHTML and server-side form handlers will learn how a Web site editor creates static and dynamic pages. Additionally, FrontPage's site management features will be fully explored. (CSU)

CIS 150  Personal Computer Server and Workstation Operating Systems  
(2 units)(Prerequisite: Computer Information Systems 122. Three lecture and three laboratory hours weekly for eight weeks.)  
A course for students who will install, configure, and maintain network server and workstation operating systems. Students will configure client profiles and server roles in a network environment. (CSU)

CIS 151  Implementing and Administering a Network Infrastructure for a Personal Computer Server Operating System  
(1 ½ units)(Prerequisite: Computer Information Systems 150. Two lecture and three laboratory hours weekly for eight weeks.)  
This is a course for students who will install, configure, manage, monitor and troubleshoot a network server operating system infrastructure. This course concentrates on the following network services: DHCP, DNS, remote access, network protocols, IP routing and NetBIOS naming conventions within a network server-based operating environment. (CSU)

CIS 153  Implementing and Administering a Directory Services Infrastructure for a Personal Computer Server Operating System  
(1 ½ units)(Prerequisite: Computer Information Systems 150. Two lecture and three laboratory hours weekly for eight weeks.)  
This is a course for students who will install, configure, manage, monitor and troubleshoot Directory Services for a network server operating system. This course concentrates on the following: Directory Services and DNS, security and Directory Services within a network server-based operating environment. (CSU)

CIS 155  Designing Security for a Personal Computer Server Operating System  
(1 ½ units)(Prerequisite: Computer Information Systems 150. Advisories: Business 101 and 112AB. Two lecture and three laboratory hours weekly for eight weeks.)  
This is a course for students who will design and implement a security system to meet the business requirements of a network server operating system infrastructure. This course includes analysis of security system requirements, auditing access to resources, authenticating users, and encryption. (CSU)
CIS 158  Managing a Personal Computer Network Environment
(1½ units)(Prerequisite: Computer Information Systems 122. Advisory: Computer Information Systems 150. Two lecture and three laboratory hours weekly for eight weeks.)

This course provides students with experience managing a network which is based on a personal computer server operating system. Students will develop skills necessary to manage, monitor, and troubleshoot a personal computer network environment. Students will develop skills in setting up file, print and Web servers. Students will learn to manage, monitor, and troubleshoot the Active Directory structure in a network as well as explore software deployment and group policy implementation. The process of setting up Remote Access, VPN’s and Terminal Services in a network will be developed by hands-on practice with network server operating systems. (CSU)

CIS 159  Computer Network Security Basics
(1½ units)(Prerequisite: Computer Information Systems 122. Advisory: Computer Information Systems 153. Two lecture and three laboratory hours weekly for eight weeks.)

This course is designed to prepare the student to support, monitor, configure, and test basic security features applied to personal computer networks. The goal of this course is to provide the student with a fundamental understanding of network security. Students explore principles applied in a network. They will learn how to implement a variety of security settings for data and services. (CSU)

CIS 161  Introduction to Computer System Hardware
(1½ units)(No prerequisite. Two lecture and three laboratory hours weekly for eight weeks.)

This is a course that brings students up-to-date with the latest technology covered by the A+ exams. For the more experienced user, the course provides a fresh review and focus on what is required to meet the objectives of the A+ exams. (CSU)

CIS 162  Computer Operating Systems
(1½ units)(No prerequisite. Two lecture and three laboratory hours weekly for eight weeks.)

This is a course that brings students up-to-date with the latest operating systems covered by the A+ exams. For the more experienced user, the course provides a fresh review and focus on what is required to meet the objectives of the A+ exams. (CSU)

CIS 163  Computer System Peripherals
(1½ units)(No prerequisite. Two lecture and three laboratory hours weekly for eight weeks.)

This is a course that brings students up-to-date with the latest system peripherals included in the A+ exams. The course covers the installation, testing, troubleshooting, and maintenance of devices such as printers, disk drives, and monitors. (CSU)

CIS 164  Troubleshooting System Peripherals and Networking
(1½ units)(No prerequisite. Two lecture and three laboratory hours weekly for eight weeks.)

In this course, students develop the skills necessary to identify and resolve computer system hardware and operating system software problems. Included in this course are the networking concepts relating to system troubleshooting. (CSU)

CIS 200  Software Certification Test Preparation
(½ unit)(No prerequisite. Advisories: Business Office Systems 114 or Computer Information Systems 117 or 118. One and one-half laboratory hours weekly.)

In this course, students work with computer software to evaluate skill level in selected application software and prepare for software certification tests. May be taken four times for credit. (CSU)

CIS 213N  Internship in Networking
(3 units)(Prerequisites: Computer Information Systems 150, 158. Corequisites: Computer Information Systems 151 or 153 or 155. Advisories: Computer Information Systems 161, 162. Two lecture and three laboratory hours weekly.)

This course bridges the gap between the classroom and the networking industry by providing an on-campus lecture class coupled with a short-term internship. Students gain an understanding of real networking work situations and expectations in a “real-life” context characterized by workgroup activities, multiple projects under deadline, and collaborative effort. Internships are not guaranteed. Projects may be suitable for students’ portfolios. (CSU)

CIS 213P  Internship in Print Publishing
(3 units)(Prerequisite: Computer Information Systems 115. Two lecture and three laboratory hours weekly.)

This course bridges the gap between the classroom and the printing industry by providing an on-campus lecture class coupled with a short-term internship, students gain an understanding of real print production work situations and expectations in a “real-life” context characterized by workgroup activities, multiple projects under deadline, and collaborative effort. Internships are not guaranteed. Projects may be suitable for students’ portfolios. (CSU)

CIS 215  Visual BASIC Programming
(3½ units)(No prerequisite. Advisory: Computer Information Systems 110. Three lecture and two laboratory hours weekly.)

The students will plan and create their own interactive Windows applications using Visual BASIC on a personal computer. Problems will be presented in logic and computation to develop skill in developing interactive BASIC programs. (CSU/UC) AA/AS Area E
CIS 237  Introduction to SQL Programming
(1½ units)(No prerequisite: Advisory: Computer Information Systems 137. Two lecture and three laboratory hours weekly for eight weeks.)

This is a course extending students’ relational database application development knowledge using SQL. Students will concentrate on learning the SQL programming language including: single and multiple-table queries, updating data, database administration, reports and embedded SQL. (CSU)

CIS 241  Introduction to XML Programming
(1½ units)(No prerequisite. Advisories: Computer Information Systems 141, 142. Two lecture and three laboratory hours weekly for eight weeks.)

Extensible Markup Language (XML) is designed to allow authors to go beyond the limitations of Hypertext Markup Language (HTML) in the development of Web pages. Already competent in coding HTML documents with style sheets, students will learn XML techniques such as using document type definitions (DTD), schemas, and extensible style language (XSL/XSLT). The use of Extensible Hypertext Markup Language (XHTML – the refinement of HTML into an XML application) will also be addressed. (CSU/UC)

CIS 249  Directed Study
(1-3 units)(Limit to Enrollment: Successful completion of twelve units in Computer Information Systems.)

This course is designed to give the student an opportunity for independent study in computer information systems. The student plans a project under the guidance of a computer information systems instructor. Evaluation is through reports and conferences and a final written report of the student’s work and findings. This course may be taken more than once for credit. (CSU/UC w/limit)

COMPUTER SCIENCE COURSES

COMP 110 and 112: credit/no credit only
All other courses: Letter grade or credit/no credit.

In general, courses required for a transfer student’s four-year major should be taken on a letter grade basis.

COMP 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

COMP 75  Selected Applications
(1 unit)(Prerequisite: Computer Science 110. Three laboratory hours weekly.)

This course offers experienced students the opportunity to further explore selected application packages running on the UNIX operating system on the Science Center computer. Applications include word processing, typesetting, the writer’s workbench, graphing with Plot2d, the UNIX operating system, databases and others. This is a self-paced, self-directed course. May be taken four times for credit.

COMP 110  Introduction to Computers
(1 unit)(No prerequisite. One-half lecture and one and one-half laboratory hours weekly.)

This course is an introduction to the computing facilities available on the Science Center computers. Students will learn the fundamentals of both the DOS and UNIX operating systems; how to log-on, use an editor, manage files and send electronic mail. A brief introduction to graphing, statistics, and programming packages is also included. (CSU)

COMP 112  Introduction to UNIX
(½ unit)(Prerequisite: Competence in any computer language. Two lecture hours weekly for four weeks.)

An accelerated introduction to the UNIX operating system for experienced programmers; how to log-on, use an editor, manage files, and send electronic mail. (CSU)

COMP 115  Technical BASIC Programming
(1½ units)(No prerequisite. Two lecture and three laboratory hours weekly for eight weeks.)

This course is designed to introduce technical students to computers and computer programming using the BASIC language. (CSU)

COMP 117  Discrete Mathematics
(3 units)(Prerequisite: Math 121 or 123. Also offered as Math 117. Students may receive credit for Computer Science 117 or Math 117, but not for both courses. Three lecture hours weekly.)

This course is a survey of topics including set theory, combinatorics, graph theory, algorithm, logic, Boolean algebra, formal languages, and probability theory. Recommended for mathematics majors and students interested in engineering and applied fields. (CSU/UC)

CSU Area B-4, IGETC Area 2

COMP 130  Introduction to Computer Programming
(4 units)(Prerequisites: Math 103 and Computer Science 110. Computer Science 110 may be taken concurrently. Three lecture and three laboratory hours weekly.)

This course offers an introduction to problem solving using a structured, object-oriented programming language like C/C++ for those without prior programming experience. Examples and programming assignments are drawn from many areas, involving both numerical and non-numerical applications. (CSU/UC)

AA/AS Area E
COMP 135  Introduction to Programming in Java
(4 units)(Prerequisite: Math 103 or 103XY. Three lecture and three laboratory hours weekly.)
This course teaches students how to use a structured, object-oriented approach to build Java applications that solve real-world problems, and applets that can be deployed on a Web page. Principles of structured programming are illustrated with primitive data types and operations, control statements, arrays, and strings. Object-oriented programming discusses methods, objects, and classes, and continues with inheritance, polymorphism, abstract classes, and interfaces. Graphics programming and graphical user interfaces are emphasized along with event-driven programming and exception handling. Topics from multimedia and simple file input/output are also discussed. (CSU/UC)
AA/AS Area E

COMP 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

COMP 140  Fundamentals of Programming in FORTRAN
(4 units)(Prerequisites: Math 121 or 123 and Computer Science 110. Both Math 121 or 123 and Computer Science 110 may be taken concurrently. Three lecture and three laboratory hours weekly.)
The complete standard FORTRAN 77 programming language. Emphasis is on problem solving and numerical methods, with applications to physical sciences, mathematics, engineering, and economics. (CSU/UC)
AA/AS Area E

COMP 150A  Introduction to Computers for Scientists and Engineers
(2 units)(Prerequisites: Math 104 and 105. Two lecture hours weekly.)
This course is an introduction to computer tools and techniques useful for scientific data analysis and problem solving. The course makes use of spreadsheet software (such as Microsoft Excel) and the MATLAB programming language. Students learn to perform routine data analysis, including use of mathematical equations, statistical analysis, graphing, and curve fitting, as well as basic programming structures and a variety of problem-solving techniques involving algebraic and trigonometric equations. (CSU/UC)

COMP 150B  Programming in MATLAB for Engineers
(2 units)(Prerequisites: Computer Science 150A and Math 123. Two lecture hours weekly.)
Designed to meet computer programming requirements for engineering transfer students, when combined with the prerequisite COMP 150A course. Students outline, write, test, and debug computer programs to solve problems and display results, with emphasis on proper documentation of computer code and reports. Common examples and applications of physics and engineering are used throughout the course. (CSU/UC)

COMP 160  Computer Organization: An Assembly Language Perspective
(3 units)(Prerequisite: Computer Science 130 or 140 or 230. Three lecture hours weekly.)
Description of a digital computer from a hardware point of view including organization of memory, registers, the central processing unit, peripheral devices, and control and data paths. (CSU/UC)

COMP 190  Prolog: Logic Programming and Artificial Intelligence
(3 units)(Prerequisite: Competence in a programming language. Three lecture hours weekly.)
This course is an introduction to Prolog, a declarative, procedural programming language. Applications to problems in logic, expert systems, and artificial intelligence. Examples of windowing, graphics, and sound using Turbo Prolog. (CSU/UC)

COMP 200  Programming in LISP
(3 units)(Prerequisite: Computer Science 120 or 130 or 190 or 230. Three lecture hours weekly.)
Fundamentals of symbolic computation using the LISP programming language, with special emphasis on the widely implemented Franz LISP dialect. Introduction to some of the principles and programming techniques used in artificial intelligence, with elementary applications to a wide variety of problems and areas such as heuristic problem solving, game playing, natural language processing, knowledge representation, pattern recognition, and associative database systems. (CSU/UC)
AA/AS Area E

COMP 220  Data Structures and Algorithms
(3 units)(Prerequisite: Computer Science 130 or 230. Three lecture hours weekly.)
This is a second programming course emphasizing the systematic design and implementation of larger programs, often using recursion. Topics include fundamental and self-adjusting dynamic data structures, specifically lists, stacks, queues, trees, graphs, and hash tables, with methods for their construction and maintenance; efficient algorithms for searching and sorting; string and file processing; and elementary principles of software engineering, object-oriented methods, and abstract data types. (CSU/UC)

COMP 230  Programming in C
(3 units)(Prerequisite: Computer Science 130 or 140. Students without UNIX experience may take Computer Science 110 concurrently. Three lecture hours weekly.)
An introduction to the C programming language and to some of the advanced programming techniques it makes possible. (CSU/UC)
COMP 232  Programming in JAVA  
(3 units)(Prerequisite: Computer Science 230. Three lecture hours weekly.)
This course explains how to use a structured, object-oriented approach to build Java applications and applets. Principles of structured programming are illustrated with primitive data types and operations, control statements, arrays, and strings. Object-oriented programming begins with a discussion of methods, objects, and classes, and continues with class inheritance, polymorphism, abstract classes, and interfaces. Graphics programming and graphical user interfaces are introduced along with event-driven programming and exception handling. Some topics from internationalization, multithreading, multimedia, file input/output, and networking may also be covered. (CSU/UC)  
AA/AS Area E  
COMP 235  Programming in C++  
(3 units)(Prerequisite: Computer Science 230. Three lecture hours weekly.)
An introduction to the C++ programming language and to object-oriented programming concepts such as data abstraction, encapsulation, polymorphism, user-defined types, and inheritance. (CSU/UC)  
COMP 249  Directed Study in Computer Science  
(1-3 units)(Limit to Enrollment: A grade of "B" or higher in introductory computer courses such as Computer Science 140 or Computer Information Systems 110. Prior arrangement with the instructor is necessary.)
This offering is designed to encourage individual students to pursue studies in computer science not provided either in the program or in their foreseeable formal study elsewhere. (CSU/UC w/limit)  
COUN 114  College Success Investigations  
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is an in-depth guide designed to introduce students to the role of higher education in society and their role as students within the academic community. Emphasis is placed on students taking an active role in their own education and making a successful adjustment to the collegiate academic standards, expectations and responsibilities. Activities in this course are designed to enhance the student's awareness in learning, critical thinking, development of academic and personal goals and to provide experiences to foster motivation and increase self esteem. In addition, the introduction to the college resources, policies, procedures, and services will allow the student to develop a support network. Faculty presentations from a variety of disciplines will assist the students in their development of an educational profile reflecting their personal skills, interests and academic strategies. Successful completion of the course will be the application of the skills and knowledge that will support the student's positive academic experience as they transfer from a community college to a four year college. (CSU/UC)  
COUN 115AB  Planning for Success in College  
(½, 1 unit)(No prerequisite. One-half lecture hour weekly for one-half unit, and one lecture hour weekly for one unit.)
This course will focus on how to successfully prepare to transfer to UC, CSU, and private universities and colleges. Topics will include developing an educational plan and selecting courses for transfer, admission criteria and the review process, choosing a college major, developing an effective personal statement, policies, procedures, and services will allow the student to develop a support network. Faculty presentations from a variety of disciplines will assist the students in their development of an educational profile reflecting their personal skills, interests and academic strategies. Successful completion of the course will be the application of the skills and knowledge that will support the student's positive academic experience as they transfer from a community college to a four year college. (CSU/UC)  
COUN 120  Educational Planning  
(½ unit)(No prerequisite. One hour weekly for eight weeks.)
This course is designed to assist students to select their major and to plan their educational programs. Can also be offered in a distance learning format. (CSU)  
COUN 125  How to Study Effectively  
(1 unit)(No prerequisite. Sixteen lecture hours per semester.)
This course is designed to introduce the student to proven study techniques including time budgeting for maximum energy output, listening and lecture note taking, efficient textbook reading, preparing for the taking of examinations, and improving concentration and memory. (CSU)  
COUN 125L  Effective Study Skills Lab  
(½ unit)(No prerequisite. Two laboratory hours weekly.)
This course provides students the opportunity to assess their current study skills, and in the lab setting develop and practice proven study techniques in effective textbook reading, active listening, lecture note taking, exam preparation, memory and concentration improvement, and time budgeting. May be taken four times for credit. (CSU)
COUN 130  Career/Life Planning  
(3 units)(No prerequisite. Three lecture hours weekly.)
This course provides a theoretical and practical basis for the student to define and plan career/life goals. Lectures and discussions will analyze the difficulties and processes involved in making career decisions. Various self-assessment methods including interest, aptitude, and personality testing will be used. Can also be offered in a distance learning format. (CSU)

COUN 132  Computerized Career Planning  
(½ unit)(No prerequisite. One and one-half independent study hours weekly.)
A self-directed study focusing on one's vocational interests and career utilizing a computerized guidance system — Eureka. Various assessment inventories will be used in conjunction with the Eureka Guidance System, counseling services, and current literature topics in vocational guidance. This course is designed to aid the student in making more effective career decisions. (CSU)

COUN 133A  Career Exploration  
(½ unit)(No prerequisite. One-half lecture hour weekly.)
This is a short course introducing self-assessment including interests, skills, values, and personality style, as it relates to career transition and choosing a major. (CSU)

COUN 133B  Career Exploration  
(1 unit)(No prerequisite. One lecture hour weekly.)
This course provides the student with a practical approach to making career and educational decisions. Self-assessment inventories and assignments will help students discover their interests, values, skills, and personality style. Students will learn to make career decisions that are compatible with their unique personality and interests. (CSU)

COUN 135  Effective Job Search Strategies  
(½ unit)(No prerequisite. Eight lecture hours per semester.)
This course provides practical step-by-step instructions for the job search process. Emphasis will be on career testing, job hunting methods and techniques, resume and cover letter preparation, and interviewing and follow-up procedures. (CSU)

COUN 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

COUN 140  Effective Communication for Peer Counselors  
(1 unit)(No prerequisite. One lecture and three laboratory hours weekly for one-half semester.)
A course designed to train students who will work with people to be more effective in their interpersonal communication. (CSU)

COUN 141  Peer Counseling  
(1 unit)(Prerequisite: Counseling 140. One lecture and three laboratory hours weekly for one-half semester.)
A course designed to train students to be effective peer counselors. (CSU)

COUN 142  Peer Counseling Seminar and Field Experience  
(2 units)(Prerequisite: Counseling 141. One lecture and three laboratory hours weekly.)
During the lecture/seminar hour, emphasis will be on topics pertaining to fieldwork experience. In addition, students will work three hours per week as peer counselors. (CSU)

COUN 153AB  Group Process  
(½, 1 unit)(No prerequisite. One-quarter lecture and three-quarter laboratory hour weekly for one-half student unit; and one-half lecture and one-half laboratory hours weekly for one student unit.)
This course is designed to provide students an opportunity to participate in a small group experience for the purpose of examining their behavior and the concepts of group behavior. The group will function as a mini-laboratory to improve self-awareness and communication with others according to individual needs and interests. Counseling 153B may be taken four times for credit. (CSU)

COUN 154  Community Resources for the Disabled  
(½ unit)(Prerequisite: Disabled student. One-half lecture hour weekly.)
Students with disabilities will learn about the various community resources available to them. Emphasis will be on such topics as social services, social security, medical assistance, financial aid, housing, and transportation. Presentations will be made by counseling staff and guest speakers. May be repeated for credit.

COUN 249  Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

COUR 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)
COUR 90 Legal Careers
(1 unit)(No prerequisite. One lecture hour weekly.)
The student will explore the profession of law and related career opportunities including the practice of law, court reporting, paralegal, sales and marketing to the legal profession, administration of justice (police work, etc.), fiduciary administration (estates, trusts), and legal technology. Can also be offered in a distance learning format.

COUR 110 Theory of Machine Shorthand
(8 units)(Prerequisite: Ability to type 30 words-a-minute. Five lecture and nine laboratory [four unsupervised] hours weekly.)
The student will study the theory and operation of the stenotype machine. This course is designed to develop knowledge of stenotype theory, machine dexterity, fluent reading of stenotype notes, and the ability to take dictation between 60 and 80 wpm for three minutes with better than 98% accuracy. Students will arrange for the rental or purchase of a stenotype machine at the student’s expense prior to the first class meeting. Can also be offered in a distance learning format. (CSU)

COUR 112 Beginning Machine Shorthand Workshop: Level I
(4 units)(Prerequisite: Court Reporting 110. Corequisites: Court Reporting 115J and 115T. Two and one-half lecture and four and one-half laboratory [two unsupervised] hours weekly.)
The student will complete the machine shorthand theory textbook. This course is designed to conclude the new stenotype theory principles; develop stenotype machine dexterity, improve fluent reading of stenotype notes; and the ability to take dictation at 75 wpm on 2-minute “Mandatory, Brief, and Phrase” tests and 3-minute unfamiliar Literary material with at least 90% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 115F Beginning Machine Shorthand Four-Voice: Level II-F
(2 units)(Prerequisite: Court Reporting 112. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 100 wpm on 4-minute, 4-Voice tests with at least 90% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 115J Beginning Machine Shorthand Jury Charge: Level II-J
(2 units)(Prerequisites: Court Reporting 110 and 110L. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 100 wpm on 3-minute, Jury Charge tests with at least 90% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 115S Beginning Machine Shorthand Literary: Level II-S
(2 units)(Prerequisite: Court Reporting 112. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 100 wpm on 4-minute, Literary tests at least 92.5% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 115T Beginning Machine Shorthand Two-Voice: Level II-T
(2 units)(Prerequisites: Court Reporting 110 and 110L. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 100 wpm on 3-minute, 2-Voice tests with at least 90% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 125F Intermediate Machine Shorthand Four-Voice: Level III-F
(2 units)(Prerequisite: Court Reporting 115F. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 125 wpm on 5-minute, 4-Voice tests with at least 97.5% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)
COUR 125J  Intermediate Machine Shorthand
Jury Charge: Level III-J
(2 units)(Prerequisite: Court Reporting 115J. Total of eight units of
machine shorthand required. One and one-quarter lecture and two
and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to
take dictation at 125 wam on 5-minute, Jury Charge tests with at
least 95% accuracy; and continue the development of technical,
medical, legal, and general vocabulary, as well as familiarization
with current events. The student will simulate the role of court
reporter in a variety of situations. May be taken four times for
credit. (CSU)

COUR 125S  Intermediate Machine Shorthand
Literary: Level III-S
(2 units)(Prerequisite: Court Reporting 115S. Total of eight units of
machine shorthand required. One and one-quarter lecture and two
and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to
take dictation at 125 wam on 5-minute, Literary tests with at
least 95% accuracy; and continue the development of technical,
medical, legal, and general vocabulary, as well as familiarization
with current events. The student will simulate the role of court
reporter in a variety of situations. May be taken four times for
credit. (CSU)

COUR 125T  Intermediate Machine Shorthand
Two-Voice: Level III-T
(2 units)(Prerequisite: Court Reporting 115T. Total of eight units of
machine shorthand required. One and one-quarter lecture and two
and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to
take dictation at 125 wam on 5-minute, 2-Voice tests with at least
98.2% accuracy; and continue the development of technical,
medical, legal, and general vocabulary, as well as familiarization
with current events. The student will simulate the role of court
reporter in a variety of situations. May be taken four times for
credit. (CSU)

COUR 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

COUR 150F  Intermediate Machine Shorthand
Four-Voice: Level IV-F
(2 units)(Prerequisite: Court Reporting 125F. Total of eight units of
machine shorthand required. One and one-quarter lecture and two
and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take
dictation at 150 wam on 5-minute, 4-Voice tests with at least
97.5% accuracy; and continue the development of technical,
medical, legal, and general vocabulary, as well as familiarization
with current events. The student will simulate the role of court
reporter in a variety of situations. May be taken four times for
credit. (CSU)

COUR 150J  Intermediate Machine Shorthand
Jury Charge: Level IV-J
(2 units)(Prerequisite: Court Reporting 125J. Total of eight units of
machine shorthand required. One and one-quarter lecture and two
and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take
dictation at 150 wam on 5-minute, Jury Charge tests with at least
95% accuracy; and continue the development of technical,
medical, legal, and general vocabulary, as well as familiarization
with current events. The student will simulate the role of court
reporter in a variety of situations. May be taken four times for
credit. (CSU)

COUR 150S  Intermediate Machine Shorthand
Literary: Level IV-S
(2 units)(Prerequisite: Court Reporting 125S. Total of eight units of
machine shorthand required. One and one-quarter lecture and two
and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take
dictation at 150 wam on 5-minute, Literary tests with at least
95% accuracy; and continue the development of technical,
medical, legal, and general vocabulary, as well as familiarization
with current events. The student will simulate the role of court
reporter in a variety of situations. May be taken four times for
credit. (CSU)

COUR 150T  Intermediate Machine Shorthand
Two-Voice: Level IV-T
(2 units)(Prerequisite: Court Reporting 125T. Total of eight units of
machine shorthand required. One and one-quarter lecture and two
and one-quarter laboratory [one unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take
dictation at 150 wam on 5-minute, 2-Voice tests with at least
98.2% accuracy; and continue the development of technical,
medical, legal, and general vocabulary, as well as familiarization
with current events. The student will simulate the role of court
reporter in a variety of situations. May be taken four times for
credit. (CSU)
COUR 165  Legal Terminology
(3 units)(No prerequisite. Three lecture hours weekly.)

The instructor will cover the following areas: (a) the general concepts of the law to include real and personal property, negligence and personal injury, contracts, wills, probate and domestic relations, corporate law, insurance, criminal law, and equity; (b) procedural law including trial procedures, subpoenas, depositions, appellate procedures, and the structure of the judicial system. Designed for either the legal secretary or the verbatim reporter. Field trips may include the courthouse, law library, jails and prisons. (CSU)

COUR 166  Law Library Skills
(1½ units)(No prerequisite. Three lecture hours weekly for eight weeks.)

This course is designed primarily for court reporting and pre-law students and legal secretaries, but is open to all. It introduces students to law libraries as a unique resource of our legal system. Students will explore the basic organization and tools of a law library in the forms of court case reports and other judicial and administrative decisions; state, federal, and local legislation; legal encyclopedias, periodicals, and summaries; and citations, abbreviations, and terms used in relation to these tools. The course will include field trips to the law library, and may include field trips to courthouses, jails and prisons. (CSU)

COUR 167  Procedures and Ethics for the Court/Deposition Reporter
(1 unit)(No prerequisite. Two lecture hours weekly for eight weeks.)

This course explores the career opportunities in court, deposition, and convention reporting concentrating on the ethics and procedures inherent to these careers. (CSU)

COUR 169A  Computer-Aided Transcription
(2 units)(Prerequisite: Court Reporting 110. Corequisite: Court Reporting 170. Two lecture hours weekly.)

The student will develop knowledge and skill in the use of a computer-aided transcription system. Introduction of the computerized stenotype machine, computer editing, printing, real-time reporting, and multimedia technology in the court reporting industry will be emphasized. Instruction is a combination of lecture/demonstration/imitation on the computer, class discussion, and individual practice sessions. (CSU)

COUR 169B  Transcript Preparation/Formatting
(1 unit)(No prerequisite. Corequisite: Court Reporting 170. One lecture hour weekly.)

This course emphasizes the transcription of the verbatim record of depositions, hearings, and judicial proceedings with word processing software. (CSU)

COUR 169C  Rapid Data Entry
(½ unit)(Prerequisite: Court Reporting 169A. Corequisite: Court Reporting 170. One lecture hour weekly for eight weeks.)

Prepares the students to do computer data entry at 140 plus words a minute. The student will develop proficiency in the use of rapid-data-entry software, using the stenotype keyboard as the input and editing device. Instruction is a combination of lecture, demonstration on the computer, class discussion, and individual practice sessions. (CSU)

COUR 169D  Stenocaptioning I—Writing for Realtime
(1 unit)(Prerequisites: Court Reporting 169A and 169C. Three laboratory hours weekly.)

This course will concentrate on developing the skill and knowledge necessary to write a conflict-free reporting theory to provide instantaneous translation. May be taken four times for credit. (CSU)

COUR 170  Microtranscription
(1 unit)(No prerequisite. Corequisite: Court Reporting 169A or 169B or 169C. Three laboratory hours weekly.)

Open lab, students will complete assignments to develop their personal stenotype-to-English translation dictionaries. Jury charge, four-voice, question and answer, technical, and medical material will be emphasized during the entire semester. May be taken four times for credit. (CSU)

COUR 171, 172, 173  Four-Voice Speed and Accuracy Building
(1, 2, 3 units)(Prerequisites: Court Reporting 110 and 110L. One unit for 171, two units for 172, and three units for 173. Three, six, or nine laboratory hours weekly.)

These courses concentrate on developing speed and accuracy on four-voice material through repetitive use of the videocassettes in the Learning Center. Each may be taken a total of four times for credit, but combinations (COUR 171, 172, 173) may not exceed 12 units. (CSU)

COUR 175F  Intermediate Machine Shorthand Four-Voice: Level V-F
(2 units)(Prerequisite: Court Reporting 150F. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)

This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 175 wpm on 10-minute, 4-Voice tests with at least 97.5% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)
COUR 175J  Intermediate Machine Shorthand  
Jury Charge: Level V-J  
(2 units)(Prerequisite: Court Reporting 150J. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)  
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 175 wam on 5-minute, Jury Charge tests with at least 95% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 175S  Intermediate Machine Shorthand  
Literary: Level V-S  
(2 units)(Prerequisite: Court Reporting 150S. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)  
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 175 wam on 5-minute, Literary tests with at least 95% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 175T  Intermediate Machine Shorthand  
Two-Voice: Level V-T  
(2 units)(Prerequisite: Court Reporting 150T. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)  
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 175 wam on 5-minute, 2-Voice tests with at least 98.2% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 200J  Advanced Machine Shorthand  
Jury Charge: Level VI-J  
(2 units)(Prerequisite: Court Reporting 175J. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)  
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 200 wam on 10-minute, unfamiliar Jury Charge tests with at least 95% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 200T  Advanced Machine Shorthand  
Two-Voice: Level VI-T  
(2 units)(Prerequisite: Court Reporting 175T. Total of eight units of machine shorthand required. One and one-quarter lecture and two and one-quarter laboratory [one unsupervised] hours weekly.)  
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 200 wam on 5-minute, unfamiliar 2-Voice tests with at least 98.2% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 210A  Advanced Machine Shorthand  
Five Minute Four-Voice: Level VII-A  
(8 units)(Prerequisite: Court Reporting 175F. Total of eight units of machine shorthand required. Five lecture and nine laboratory [four unsupervised] hours weekly.)  
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 200 wam on 5-minute, unfamiliar 4-Voice tests with at least 97.5% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 210B  Advanced Machine Shorthand  
Seven and One-Half Minute Four-Voice: Level VII-B  
(8 units)(Prerequisite: Court Reporting 210A. Total of eight units of machine shorthand required. Five lecture and nine laboratory [four unsupervised] hours weekly.)  
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 200 wam on 7.5-minute, unfamiliar 4-Voice tests with at least 97.5% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 210C  Advanced Machine Shorthand  
Ten Minute Four-Voice: Level VII-C  
(8 units)(Prerequisite: Court Reporting 210B. Total of eight units of machine shorthand required. Five lecture and nine laboratory [four unsupervised] hours weekly.)  
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 200 wam on 10-minute, unfamiliar 4-Voice tests with at least 97.5% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)
COUR 225J  Advanced Machine Shorthand Five Minute Jury Charge: Level VIII-J
(8) (Prerequisite: Court Reporting 200J. Total of eight units of machine shorthand required. Five lecture and nine laboratory [four unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 225 wpm on 5-minute, unfamiliar Jury Charge tests with at least 95% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 225S  Advanced Machine Shorthand Five Minute Literary: Level VIII-S
(8 units)(Prerequisite: Court Reporting 175S. Total of eight units of machine shorthand required. Five lecture and nine laboratory [four unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 200 wpm on 5-minute, unfamiliar Literary tests with at least 95% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 225T  Advanced Machine Shorthand Five Minute Two-Voice: Level VIII-T
(8) (Prerequisite: Court Reporting 200T. Total of eight units of machine shorthand required. Five lecture and nine laboratory [four unsupervised] hours weekly.)
This course is designed to develop stenotype machine dexterity; improve fluent reading of stenotype notes; the ability to take dictation at 225 wpm on 5-minute, unfamiliar 2-Voice tests with at least 95% accuracy; and continue the development of technical, medical, legal, and general vocabulary, as well as familiarization with current events. The student will simulate the role of court reporter in a variety of situations. May be taken four times for credit. (CSU)

COUR 249  Directed Study
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

COUR 282  Certified Shorthand Reporter/Registered Professional Reporter Exam Preparation
(1 unit)(Prerequisites: Court Reporting 175 and 175L. Two lecture hours weekly for eight weeks.)
This course is a comprehensive review of legal terminology, professional practices, and applicable code sections in preparation for the Registered Professional Reporter and the Certified Shorthand Reporter examinations. May be taken three times for credit. (CSU)

DANCE COURSES

DANC 39  Selected Topics (Nondegree Applicable)
(1/2-6 units)(Please see Selected Topics category.)

DANC 105A  History of Dance: Primitive through Classical Ballet
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is a historical survey of dance from early tribal life to the end of the nineteenth century. Examines Primitive dance, the Egyptian, Greek, and Roman periods, the Middle Ages, the development of Renaissance and Baroque dance into Romantic and Classical ballet. Emphasis on dance as an outgrowth and expression of human religious beliefs, cultures, and societies. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A

DANC 105B  History of Dance: The Twentieth Century
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is a historical survey of twentieth-century dance. Examine tribal dance (as representative of basic dance forms and impulses) as a point of departure for exploration of the twentieth-century forms: jazz-modern-contemporary ballet. Includes the Diaghilev era, early modern, jazz, American ballet, modern, contemporary world ballet, and post-modern. Can also be offered in a distance learning format. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A

DANC 107  Dance Across Cultures
(3 units)(No prerequisite. Three lecture hours weekly.)
Examines world dance as an expression of culture through the integration of movement, music, song, art and drama. Explores dance as defined by the influences of history, religion, belief systems, imagery, dreams, oral traditions, life cycles, gender roles and social structures. Countries to be selected from include Africa, South America, Japan, India, North, Central and South America, Caribbean, Pacific Rim, Indonesia and Australia. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A

DANC 108  Dance History: Dancing - The Pleasure, Power, and Art of Movement
(3 units)(No prerequisite. Three hours weekly.)
This videocassette course probes the traditions of dance in communities around the world from the waltz to the eloquent gestures of an Asante court dancer in Ghana; from the latest Hip-Hop in Morocco to a ballet class in Russia; from a church procession in Seville to a modern dance rehearsal in New York, in an attempt to understand the oldest and most compelling family of languages: the art of communication called dance. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A
DANC 110  Introduction to Creative Dance
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

Explores the creative process by which dances are born, with an overview of fundamentals, including technique, composition, and improvisation. Beginning to intermediate level. May be taken four times for credit. (CSU/UC)
AA/AS Area H, CSU Area C-1

DANC 112  Dancing in America
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

This course is an introduction to the basic skills of a variety of dance styles indigenous to America to be selected from such forms as street dance, ballroom, movement games, jazz, and tap. Two or three of these forms will be selected per semester for examination of their historical and socio-cultural backgrounds, movement theory, and execution of technique and style. May be taken four times for credit. (CSU/UC)

DANC 113  Modern Jazz I
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

Beginning level technique focusing on a blend of modern and jazz dance movement and music. Toning/stretch floor-barre, center work, locomotor and choreographic sequences. Emphasis on coordination, isolations, rhythm, feeling, musicality and injury prevention. May be taken four times for credit. (CSU/UC)
AA/AS Area H, CSU Area C-1

DANC 114  Modern Jazz II
(1½ units)(No prerequisite. Advisory: Dance 113. One lecture and two laboratory hours weekly.)

Intermediate level, exploring numerous jazz styles (i.e. blues, lyrical, modern). Various types of turns, spiraling, fall-and-suspension and floorwork. Emphasizes more advanced rhythm and time signatures, spatial awareness and individual expression. May be taken four times for credit. (CSU/UC)
AA/AS Area H

DANC 115  Modern Ballet I
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

Introduces the basics of classical ballet and how they may be integrated with modern dance techniques to form the idiom called modern ballet. Floor exercises, ballet barre, and center work using the two styles. Emphasis on proper body alignment, strength, flexibility and endurance. Please refer to the dance repeatability policy at the beginning of the dance section for requirements and limitations to repeat this course. May be taken four times for credit. (CSU/UC)
AA/AS Area H

DANC 116  Modern Ballet II
(1½ units)(No prerequisite. Advisory: Dance 115. One lecture and two laboratory hours weekly.)

Furthers the student's knowledge of the synthesis of ballet and contemporary dance techniques at the intermediate level. Performance techniques will be introduced. Please refer to the dance repeatability policy at the beginning of the dance section for requirements and limitations to repeat this course. May be taken four times for credit. (CSU/UC)
AA/AS Area H

DANC 117  Dancercise
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

This is a dance course designed to promote total fitness through the use of a variety of styles of dance, rhythmic movement, aerobics, strengthening and relaxation exercises, Yoga and Pilates. This pulse monitored program is structured to produce metabolic efficiency and increase energy, endurance, strength and flexibility through an introduction of a variety of dance styles including Latin, hip hop, swing, jazz, modern and disco. Instructor supervised demonstrations and performances are designed to assist the student in reaching a satisfactory level of skill through repeated practice. May be taken four times for credit. (CSU/UC)
AA/AS Area H

DANC 118  Dancercise II
(1½ units)(No prerequisite. Advisory: Dance 117. One lecture and two laboratory hours weekly.)

This is a dance course designed to promote total fitness through the use of a variety of dance styles, aerobics principles, strengthening, flexibility and relaxation exercises, Yoga and Pilates. This pulse monitored program is structured to produce greater metabolic efficiency, increased energy, endurance, strength, flexibility and stress relief through an introduction of a variety of dance styles including Latin, hip hop, swing, jazz, modern and disco. Instructor supervised demonstrations and performances are designed to assist the student in reaching a satisfactory level of skill through repeated practice. May be taken four times for credit. (CSU/UC)
AA/AS Area H

DANC 119  African-Haitian Dance
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

This course will include skills in African-Haitian dance based upon the technique of Katherine Dunham. Emphasis will be placed upon the development of rhythmic awareness through barre and floor progressions. Movement phases will be based upon authentic dances from Africa and the Caribbean Islands. Participants will learn to use their body parts polyrhythmically and in isolation. The history and the culture of the people will also be studied. May be taken four times for credit. (CSU/UC)
AA/AS Area H, CSU Area C-1
DANC 120  American Theatre - Dance Workshop
(2½ units)(No prerequisite. One lecture and two laboratory hours weekly for twenty weeks. Twenty-three additional hours to be arranged for rehearsals.)

This course is an exploration of various theatre dance styles through rehearsal and production. Examination of distinctive production techniques, dramatic context, and musical accompaniment. Consistent focus on performance values with a summation of all the above elements in an end-of-term lecture demonstration. May be taken four times for credit. (CSU/UC) AA/AS Area H

DANC 121  Popular Dance Styles
(1½ units)(No prerequisite. One lecture hour and two laboratory hours weekly.)

This class will enhance the beginning student's skill in mastering popular dance styles of the twentieth century. By exploring the technical basis of these styles, it is hoped that insights will be gained necessary for understanding and appreciating the emergence of popular dance in the last century. May be taken four times for credit. (CSU/UC) AA/AS Area H, CSU Area C-1

DANC 122  Jazz Dance I
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

This class is primarily designed for students to develop a proficiency in beginning jazz dance technique. Rhythmic exercises and sequences, isolations, turns, walks, combinations, and polyrhythmic movement will be covered. Jazz choreography will also be explored. In addition, students will be given an opportunity to learn about the historical development of America's self-created dance form. May be taken four times for credit. (CSU/UC) AA/AS Area H, CSU Area C-1

DANC 123  Jazz Dance II
(1½ units)(No prerequisite. Advisory: Dance 122. One lecture and two laboratory hours weekly.)

Emphasis in this class will be on the development of intermediate level jazz dance technique. Continued emphasis on rhythmic exercises and sequences, turns, walks, isolations, and polyrhythmic movement. Further exploration of jazz choreography will be covered, in addition to the elements of the historical development of jazz dance. May be taken four times for credit. (CSU/UC) AA/AS Area H

DANC 126  Ballet I
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

Beginning ballet with exercises for body awareness and alignment, flexibility, balance, strength, and stamina. Center floor work with basic adagio and allegro movements, jumps and turns. References to different national styles and ballet history. Please refer to the dance repeatability policy at the beginning of the dance section for requirements and limitations to repeat this course. May be taken four times for credit. (CSU/UC) AA/AS Area H, CSU Area C-1

DANC 127AB  Ballet II
(1½, 2 units)(No prerequisite. Advisory: Dance 126. One lecture and two laboratory hours weekly for one and one-half units, and one lecture and three laboratory hours weekly for two units.)

Dance 127A: Intermediate ballet technique. Emphasis on body alignment and placement, foot articulation, leg rotation, port de bras. Attention to the linkage of steps and the quality of individual movements. Introduction to principles of artistic expression.

Dance 127B: More intensive treatment of the material covered in Dance 127A. Includes exploration 1) of the dancer as artist and 2) of the elements of theatrical performance.

Combinations of Dance 127AB may be taken a total of four times for credit. Please refer to the dance repeatability policy at the beginning of the dance section for requirements and limitations to repeat this course. (CSU/UC) AA/AS Area H

DANC 130AB  Modern Dance I
(1½, 2 units)(No prerequisite. One lecture and two laboratory hours weekly for one and one-half units, and one lecture and three laboratory hours weekly for two units.)

Dance 130A: Beginning modern dance technique. Explores positioning, alignment, and centering as they apply to balance, turns, elevations, and movement in and through space. Examines a variety of movement qualities, rhythms, and phrasing as well as space-time-energy concepts.

Dance 130B: The extended hours provide the opportunity to explore and practice the materials in greater depth and progress at a faster rate.

Combinations of Dance 130AB may be taken a total of four times for credit. (CSU/UC) AA/AS Area H, CSU Area C-1

DANC 131AB  Modern Dance II
(1½, 2 units)(No prerequisite. Advisory: Dance 130A or 130B. One lecture and two laboratory hours weekly for one and one-half units, and one lecture and three laboratory hours weekly for two units.)

Dance 131A: Intermediate technique, adding falls and the sight reading of simple movement phrases to skills developed in Modern I. Continued emphasis on alignment, centering, balance and sensitivity to space-time-energy in movement.

Dance 131B: The extended hours provide the opportunity to explore and practice the materials in greater depth and progress at a faster rate.

Combinations of Dance 131AB may be taken a total of four times for credit. (CSU/UC) AA/AS Area H

DANCE 132  Intermediate Modern Dance
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

Intermediate technique, adding falls and the sight reading of simple movement phrases to skills developed in Modern I. Continued emphasis on alignment, centering, balance and sensitivity to space-time-energy in movement.

DANCE 133  Modern Dance II
(1½ units)(No prerequisite. Advisory: Dance 132. One lecture and two laboratory hours weekly for one and one-half units.)

Modern Intermediate technique, continuing to develop and expand skills of Modern I. Continued emphasis on alignment, centering, balance and sensitivity to space-time-energy in movement.
DANC 132  Musical Theatre Dance I
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)
Study and practice of a variety of dance styles from American Musical Theatre such as jazz of the 1950’s, soft shoe, vaudeville, chorus line, and ethnic dance. Explores the integration of music, dance and drama that is characteristic of musical theatre. Students work on numbers from Broadway musicals in large groups, quartets, duets, or solos. Acting, vocal training, audition techniques and learning choreography are also part of the study. May be taken four times for credit. (CSU/UC)
AA/AS Area H, CSU Area C-1

DANC 133  Musical Theatre Dance II
(1½ units)(No prerequisite. Advisory: Dance 132. One lecture and two laboratory hours weekly.)
Designed for the actor/dancer/musician with an eye to creating and strengthening a performer versatile in the many movement styles found in musical theatre. Surveys the major dance styles of each decade in the history of the American Musical Theatre: vaudeville, tap, soft shoe of the 1930’s, story ballet of the 1940’s etc., as well as ethnic and character dance. Includes acting, vocal training, choreographic and audition techniques. Students may work on original choreography and/or solos, duets and chorus patterns. Culminates in a final musical theatre Cabaret performance. May be taken four times for credit. (CSU/UC)
AA/AS Area H, CSU Area C-1

DANC 134  Dance Improvisation I
(2½ units)(No prerequisite. Two lecture and two laboratory hours weekly.)
Improvisation is a major part of dance training and a process essential to all art forms. Designed to develop sensitivity in movement to oneself, to others, to time, space, energy, motion, and to the moment. Structured and free improvisational techniques are used to lead to the excitement of creativity “on-the-move,” and to an understanding of improvisation as an art in itself, as well as a prelude to choreography. May be taken four times for credit. (CSU/UC)
AA/AS Area H

DANC 135  The Art of Choreography I
(2½ units)(No prerequisite. Two lecture and two laboratory hours weekly.)
The craft of choreography, its ingredients and tools. Discussion and exploration of form, content, design and the elements of time, space, and energy. Examination of shapes, texture, focus, dynamics, rhythm, and phrasing. May be taken four times for credit. (CSU/UC)
AA/AS Area H, CSU Area C-1

DANC 136  The Art of Choreography II
(2½ units)(No prerequisite. Advisory: Dance 135. Two lecture and two laboratory hours weekly.)
A continuation of skills developed in Dance 135. Choreography of solo, small, and large group pieces using traditional and avant-garde compositional forms. May be taken four times for credit. (CSU/UC)
AA/AS Area H, CSU Area C-1

DANC 138  Rhythmic Analysis for Dance
(2 units)(No prerequisite. One and one-half lecture and one and one-half laboratory hours weekly.)
From the elemental structures of rhythm, accent, melodic phrasing and tonality, the course builds a “technique for the ear.” Analysis of form, content, and expression as experienced in dance variations exemplifying musical qualities. The technique of dance as a synthesis of musical ideas. (CSU/UC)
AA/AS Area H

DANC 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

DANC 142  Tap Dance
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)
This course will familiarize the student with the theory, terminology, history and technique of tap dancing as well as tap notation. The course includes footwork, progressions, patterns, and movement combination across the floor which will be developed into dances using a variety of tap dance styles including Latin, Rhythm Tap, Irish, Soft Shoe, American, Buck and Wing. The history of the art of tap dancing, significant dancers and choreographers and performances, both live and on tape, will be examined and compared for their stylistic contributions to the art form. The students will study the place of tap dance in our historical, social and cultural background in American theatre, film and dance. May be taken four times for credit. (CSU/UC)
AA/AS Area H

DANC 143  Tap Workshop
(½ unit)(No prerequisite. Advisory: Dance 142. One-half lecture and one-half laboratory hour weekly.)
This course will present an intensified focus and application of one specific style of tap dancing to be chosen based on student interest and skill level. The focus of the study will be on a class-by-class basis. The course will familiarize the student with the theory, terminology, history and technique of tap dancing with a focus on one particular style to be chosen from the five styles taught in the survey course Dance 142. The course includes footwork, progressions, patterns and movement combinations that will be developed into dances using one tap dance style to be determined by the instructor. The history of the art of tap dancing, significant dancers and choreographers and performances, both live and on tape will be examined and compared for their stylistic contributions to the specific form of tap dancing being
studied each semester. The students will also study the place of tap dance in our historical, social and cultural background in American theater, film and dance. (CSU)

**DANC 154 Dance Production Workshop I**
(1 unit)(No prerequisite. One-half lecture and one and one-half laboratory hours weekly.)

The production aspect of dance performance. Students participate in the technical and dress rehearsals for a performance as well as completing tasks assigned by the director in the following areas: assistant to choreographer, assistant to director, set design/construction, lighting, costuming, makeup, sound, special effects, budget and publicity. May be taken four times for credit. (CSU/UC)

**DANC 155 Dance Production Workshop II**
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

This course is the same as Dance 154 with additional responsibilities. May be taken four times for credit. (CSU/UC)

**DANC 156 Dance Production Workshop III**
(3 units)(No prerequisite. One and one-half lecture and four and one-half laboratory hours weekly.)

This course is the same as Dance 155 with additional responsibilities. May be taken four times for credit. (CSU/UC)

**DANC 157 Dance Production Workshop for the Child Audience I**
(1 unit)(No prerequisite. One-half lecture and one and one-half laboratory hours weekly.)

The production aspect of dance performance for the child audience. Students participate in the technical and dress rehearsals for a performance as well as completing tasks assigned by the director in the following areas: assistant to choreographer, assistant to director, set design/construction, lighting, costuming, makeup, sound, special effects, budget and publicity. May be taken four times for credit. (CSU)

**DANC 158 Dance Production Workshop for the Child Audience II**
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

This course is the same as Dance 157 with additional responsibilities. May be taken four times for credit. (CSU)

**DANC 159 Dance Production Workshop for the Child Audience III**
(3 units)(No prerequisite. One and one-half lecture and four and one-half laboratory hours weekly.)

This course is the same as Dance 158 with additional responsibilities. May be taken four times for credit. (CSU)

**DANC 160 Introduction to Dance Performance Skills**
(1 unit)(No prerequisite. One-half lecture and two laboratory hours weekly.)

Basic skills of rehearsal and performance. Development of projection, stage presence, mastering stage space and artistic expression. Students perform in and/or choreograph for group, small groups, duet or solo pieces that are presented in a studio venue. Please refer to the dance repeatability policy at the beginning of the dance section for requirements and limitations to repeat this course. May be taken four times for credit. (CSU/UC)

**DANC 161 Beginning Ballroom Dance**
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

Fundamentals of ballroom dance. Students learn the basics of such dances as the cha cha, fox-trot, waltz, salsa, and swing. Includes discussion of the origins and development of these dances, and their contribution to the dance world. May be taken four times for credit. (CSU/UC)

**DANC 162 Continuing Ballroom Dance**
(1½ units)(No prerequisite. One lecture and two laboratory hours weekly.)

Continuing fundamentals of ballroom dance. Students will add new step patterns, new dances, and more detailed styling to their basic knowledge of ballroom dances. Includes discussion of the history of the dances. May be taken four times for credit. (CSU/UC)

**DANC 170 Summer Intensive: Workshop in Broadway Dance I**
(1½ units)(No prerequisite. Three lecture and six laboratory hours weekly for six weeks during the summer.)

An intensive workshop focusing on a comparative analysis of the styles of Broadway dances from the past to the present. May be taken four times for credit. (CSU/UC)
DANC 171  Summer Intensive: Workshop in Broadway Dance II  
(1½ units)(No prerequisite. Advisory: Dance 176. Three lecture and six laboratory hours weekly for six weeks during the summer.)  
An intensive workshop focusing on the historical social sources which shaped Broadway dances with emphasis on learning to utilize these sources as a means of becoming an expressive interpreter of the art. May be taken four times for credit. (CSU/UC)  
AA/AS Area H

DANC 172  Summer Intensive: Contemporary Dance Workshop I  
(1½ units)(No prerequisite. Three lecture and six laboratory hours weekly for six weeks during the summer.)  
An intensive workshop experience focusing on movement, improvisation, and composition as related to the contemporary period. Beginning to intermediate level. May be taken four times for credit. (CSU/UC)  
AA/AS Area H

DANC 173  Summer Intensive: Contemporary Dance Workshop II  
(1½ units)(No prerequisite. Advisory: Dance 172. Three lecture and six laboratory hours weekly for six weeks during the summer.)  
This course is a continuation of the skills developed in Dance 172. It is an intensive workshop focusing on movement, improvisation, and composition as related to the contemporary period. Intermediate to advanced level. May be taken four times for credit. (CSU/UC)  
AA/AS Area H

DANC 175  Summer Intensive: Workshop in Classical Performance II  
(1½ units)(No prerequisite. Advisory: Dance 126. Three lecture and six laboratory hours weekly for six weeks during the summer.)  
This is an intensive workshop requiring intermediate to advanced level classical movement skills. Emphasizes theatrical focus and projection as they relate to performance. May be taken four times for credit. (CSU/UC)  
AA/AS Area H

DANC 176  Summer Intensive: Workshop in Contemporary Classical Dance I  
(1½ units)(No prerequisite. Three lecture and six laboratory hours weekly for six weeks during the summer.)  
An intensive workshop focusing on the blending of contemporary and classical styles, with special emphasis on distinguishing the difference in the movement and expressive qualities of each so as to fuse them with integrity. Beginning to intermediate level movement skills. May be taken four times for credit. (CSU/UC)  
AA/AS Area H

DANC 205ABC  Publicity for Dance  
(1-3 units)(Prerequisite: Dance 156 or 159, one-half lecture and one and one-half laboratory hours weekly for one unit; one lecture and three laboratory hours weekly for two units; one and one-half lecture and four and one-half laboratory hours weekly for three units.)  
This class covers the planning process and methods and techniques of communication for advertising a dance performance. Combinations of Dance 205ABC may be taken a total of four times for credit. (CSU)

DANC 206ABC  Makeup for Dance  
(1-3 units)(Prerequisite: Dance 156 or 159, one-half lecture and one and one-half laboratory hours weekly for one unit; one lecture and three laboratory hours weekly for two units; one and one-half lecture and four and one-half laboratory hours weekly for three units.)  
This class covers design and the application of makeup as it relates to choreographic concepts. Combinations of Dance 206ABC may be taken a total of four times for credit. (CSU/UC)

DANC 207ABC  Costuming for Dance  
(1-3 units)(Prerequisite: Dance 156 or 159, one-half lecture and one and one-half laboratory hours weekly for one unit; one lecture and three laboratory hours weekly for two units; one and one-half lecture and four and one-half laboratory hours weekly for three units.)  
This course covers the creation, design development, and construction techniques of costuming for dance performance. Combinations of Dance 207ABC may be taken a total of four times for credit. (CSU/UC)

DANC 208ABC  Lighting for Dance  
(1-3 units)(Prerequisite: Dance 156 or 159, one-half lecture and one and one-half laboratory hours weekly for one unit; one lecture and three laboratory hours weekly for two units; one and one-half lecture and four and one-half laboratory hours weekly for three units.)  
This course will cover the various aspects of lighting for dance: vocabulary, instruments, control equipment, color theory, plans, plots, and design. Combinations of Dance 208ABC may be taken a total of four times for credit. (CSU/UC)

DANC 222  Musical Theatre Dance III  
(1½ units)(No prerequisite. Advisory: Dance 133. One lecture and two laboratory hours weekly.)  
A continuation of the skills developed in Dance 133, designed to strengthen the intermediate student’s proficiency in the dance, vocal music and acting of musical theatre. Exploration of acting and audition techniques, methods of choreographing musicals and creating character through dance as a means to develop a versatile performer. Students have the opportunity to contribute original choreography and ideas. Includes discussion of the significant choreographic styles of various periods in American Musical Theatre and their socioeconomic and historical background. Culminates in a final musical theatre Cabaret performance. May be taken four times for credit. (CSU/UC)  
AA/AS Area H
DANC 224  Jazz Dance III
(1½ units)(No prerequisite. Advisory: Dance 123. One lecture and two laboratory hours weekly.)

Emphasis in this class will be on the development of advanced level jazz dance technique. Continued emphasis on rhythmic exercises and sequences, turns, walks, isolations, and polyrhythmic movement. Further exploration of jazz choreography will be covered, as well as aspects of the historical development of jazz dance. May be taken four times for credit. (CSU/UC)

AA/AS Area H

DANC 225  Jazz Dance IV
(1½ units)(No prerequisite. Advisory: Dance 224. One lecture and two laboratory hours weekly.)

Emphasis in this class will be on the development of high level advanced jazz dance technique. Continued emphasis on rhythmic exercises and sequences, turns, walks, isolations, and polyrhythmic movement. Further exploration of jazz choreography will be covered, as well as aspects of the historical development of jazz dance. May be taken four times for credit. (CSU/UC)

AA/AS Area H

DANC 228AB  Ballet III
(1½, 2 units)(No prerequisite. Advisory: Dance 127A or B. One lecture and two laboratory hours weekly for one and one-half units; and one lecture and three laboratory hours weekly for two units.)

Dance 228A: Principles of ballet movement covered in Dance 127 are carried into advanced technique and vocabulary. Emphasis on fluidity of movement and on integration of the physical, mental, and emotional skills that create the total dancer.

Dance 228B: Additional technical work, as well as exploration of major ballet styles (romantic, classical, contemporary), will be covered through videotape, discussion, and practice of ballet variations.

Combinations of Dance 228AB may be taken a total of four times for credit. Please refer to the dance repeatability policy at the beginning of the dance section for requirements and limitations to repeat this course. (CSU/UC)

AA/AS Area H

DANC 229AB  Ballet IV
(1½, 2 units)(No prerequisite. Advisory: Dance 228A or 228B. One lecture and two laboratory hours weekly for one and one-half units; and one lecture and three laboratory hours weekly for two units.)

A continuation of skills developed in Dance 228AB. Emphasis on integrating the dancer's physical skills of equilibrium, extension, elevation, and endurance with the intellectual and emotional skills that create the artistry of the advanced dancer.

Combinations of Dance 229AB may be taken a total of four times for credit. Please refer to the dance repeatability policy at the beginning of the dance section for requirements and limitations to repeat this course. (CSU/UC)

AA/AS Area H

DANC 230  Pointe, Men's and Women's Variations, Pas de Deux
(1½ units)(No prerequisite. Advisory: Dance 127A or 127B. One lecture and two laboratory hours weekly.)

Women's pointe technique; women's variations from selected ballets; men's solo technique and variations; pas de deux technique; and selected portions of pas de deux from romantic, classical, and contemporary ballets. For dancers at Level III and higher. May be taken four times for credit. (CSU/UC)

AA/AS Area H, CSU Area C-1

DANC 232  Modern Dance III
(2 units)(No prerequisite. Advisory: Dance 131A or 131B. One lecture and three laboratory hours weekly.)

Advanced modern dance technique. Focuses on centering and energy flow as they function in alignment, turns, falls, extensions, elevations, and movements through space. Emphasizes learning to trust in the uniqueness of one’s own movement expression. May be taken four times for credit. (CSU/UC)

AA/AS Area H

DANC 240  Modern Dance IV
(2 units)(No prerequisite. Advisory: Dance 232. One lecture and three laboratory hours weekly.)

A continuation of skills developed in Dance 232 with emphasis on technical control as it relates to individual anatomical structure, and on the student as performer. May be taken four times for credit. (CSU/UC)

AA/AS Area H

DANC 241ABCD  Dance Company
(3,4,5,6 units)(Prerequisites: Audition required. One and one-third to two and two-thirds lecture and five to ten laboratory hours weekly for three to six units.)

Students rehearse and perform faculty choreography in a formal concert (Predetermined number of scheduled performances). Focus on technique, choreographic phrasing, artistry, and performance presence.

Combinations of Dance 241ABCD may be taken a total of four times for credit. Please refer to the dance repeatability policy at the beginning of the dance section for requirements and limitations to repeat this course. (CSU/UC)

AA/AS Area H

DANC 249  Directed Study
(1-3 units)(Please see Directed Study category.) (CSU/UC w/limit)
260ABC  Musical Production: Dance
(1,2,3 units)(Prerequisite: Audition. One-sixth, one-third, or one-half lecture and two and one-half, five, or seven and one-half laboratory hours weekly.)

Participation in a musical production presented by the Performing Arts Department. Emphasis on the utilization of a synthesis of dance techniques incorporating ballet, modern, and jazz; on learning and memorizing choreography; on developing an aesthetic sense of how the dance interfaces with other elements of a musical production, and on taking direction from the choreographer, stage and musical directors. Each may be taken a total of four times for credit, but combinations of Dance 260ABC may not exceed 12 units. (CSU/UC)

(AA/AS Area H)

DENTAL ASSISTING COURSES

DENT 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

DENT 100  Introduction to Health Careers
(2 units)(No prerequisite. Can be taken for credit as Dental Assisting 100, Health Education 100, Medical Assisting 100, or Nursing Education 100. However, credit will be awarded for only one course. Two lecture hours weekly.)

This course is designed for students interested in pursuing a career in a health profession. It provides an overview of the current health care delivery system, the physical, mental, and emotional demands of the workplace and the skills needed by the healthcare worker today and in the future. Students will learn about qualifications and professional preparation needed for various careers and analyze the roles and responsibilities in today's health care environment. This course is designed to help students develop realistic career goals as well as to give an appreciation of how the current health care delivery system is influencing individual health professional roles and responsibilities.

DENT 139  Selected Topics
(½-6 units)(Please see Selected Topics category.)

(CSU w/limit)

DENT 174  Dental Materials
(2 units)(Prerequisite: Dental Assisting 176. Corequisite: Dental Assisting 174L. See Application Procedure. Two lecture hours weekly.)

Introduction to the physical and chemical properties of dental materials and their application for dental procedures to include gypsum, impression, cements, bases and liners, amalgam, and composites. (CSU)

DENT 174L  Dental Materials Application Lab
(1 unit)(Corequisite: Dental Assisting 174. Three laboratory hours weekly.)

This lab covers the applications of dental materials to include placement of temporary sedative restorations, placements of cement bases and liners. It also includes the taking and pouring of preliminary impression materials, preparing final impression materials, and manipulating dental amalgam and composites for dental procedures. (CSU)

DENT 176  Dental Morphology, Histology and Recordings
(2 units)(Prerequisite: English 92 or English as a Second Language 85 and 86. Corequisite: Dental Assisting 176L. See Application Procedure. Two lecture hours weekly.)

This course will instruct the student in dental terminology as it relates to tooth morphology and histology, charting, numbering systems, cavity classification, oral diagnosis, and treatment planning. (CSU)

DENT 176L  Dental Morphology, Histology and Recordings Lab
(1 unit)(Corequisite: Dental Assisting 176. Three laboratory hours weekly.)

The student will demonstrate ability to perform charting of oral cavity for teeth and tissues, recognize anomalies in oral cavity, and perform periodontal charting. (CSU)

DENT 178  Dental Science II
(3 units)(Prerequisite: English 92 or English as a Second Language 85 and 86. Three lecture hours weekly.)

Students will study pathology, prevention, nutrition, and pharmacology as they relate to dentistry. Applied psychology and communication skills with dental patients and coworkers will be explored. (CSU)

DENT 180  Chairside I
(2 units)(Prerequisite: Dental Assisting 176. Corequisite: Dental Assisting 180L. See Application Procedure. Two lecture hours weekly.)

This lab consists of the use and care of dental equipment; identification, application, and distribution of dental hand instruments and rotary instruments; pre set tray set-ups and their sequence of use; four-handed dentistry techniques; and preparation for chairside assisting in a clinical setting. (CSU)
DENT 180L  Chairside I Lab
(1 unit)(Corequisite: Dental Assisting 180. Three laboratory hours weekly.)
Under the direct supervision of an instructor, students will prepare the dental operatory, prepare the pre set tray, identify hand and rotary instruments for given procedures. In addition, students will demonstrate OSHA compliance with regard to assistant safety and infection control; demonstrate the application of Rubber Dam, matrix retainer, topical anesthetic as listed in the California State Practice Act; and demonstrate entry-level knowledge of assistant's role in amalgam, composite, endodontics and fixed crown and bridge. (CSU)

DENT 182  Dental Radiology
(1 unit)(Prerequisite: Dental Assisting 176. Corequisite: Dental Assisting 182L. See Application Procedure. One lecture hour weekly.)
This course presents the information about the production and projection of x-rays as used in a dental office. Lecture will consist of methods of quality assurance, properties of x-rays, patient management and radiation, biology, and protection. (CSU)

DENT 182L  Dental Radiology Lab
(1 unit)(Corequisite: Dental Assisting 182. Three laboratory hours weekly.)
The lab requires that the student, under direct supervision of instructor, prepare for and perform exposing full-mouth sets of radiographs, evaluating the radiographs and maintaining records. These records are required by California Radiation Control Regulations (sections 30100 through 30468), Health and Safety Code (section 25661 H), and the Dental Practice Act (section 1014). Records are maintained for five years as proof of learning. (CSU)

DENT 183  Dental Specialties
(1 unit)(Prerequisite: Dental Assisting 176. Corequisite: Dental Assisting 183L. One lecture hour weekly.)
This course will provide knowledge required to obtain Coronal Polish license and an introduction into Dental Specialties. (CSU)

DENT 183L  Dental Specialties Lab
(½ unit)(Corequisite: Dental Assisting 183. One and one-half laboratory hours weekly.)
Students will perform and evaluate a coronal polish on a typodont and three patients under the supervision of a licensed dentist. Students will learn instruments and their uses in dental specialties. (CSU)

DENT 184  Chairside II
(4 units)(Prerequisite: Dental Assisting 176 and 180. Corequisite: Dental Assisting 184L. Four lecture hours weekly.)
This course covers advance chairside procedures for orthodontics, periodontics, removable prosthetics, pediatric dentistry, dental implants and oral surgery. It also prepares the dental assistant in expanded functions in temporary sedative restoration and provisional crown fabrication as part of the Registered Licensing Examination. The student will prepare an oral and written Table Clinic presentation on relevant dental topics to be presented to the Marin County Dental Society. (CSU)

DENT 184L  Chairside II Lab
(1 unit)(Corequisite: Dental Assisting 184. Three laboratory hours weekly.)
This lab provides students with pre-clinical, hands-on practice of legal dental and registered dental assisting functions in the field of endodontics, orthodontics, removable prosthetics, pedodontic dentistry. It includes extensive hands-on practice in the fabrication of aluminum, polycarbonate, and custom acrylic temporary crowns and bridges. Students are prepared for license in ultrasonic scaler usage for licensed assistants. (CSU)

DENT 186  Clinical Dental Radiology
(1 unit)(Prerequisite: Dental Assisting 176 and 182. Corequisite: Dental Assisting 186L. One lecture hour weekly.)
This course teaches the student the method for evaluating diagnostic quality dental x-rays and the method of recognizing dental anomalies. It also covers the rationalization for exposing dental radiographs and instruction for the exposure and processing of intra-oral and extra-oral dental radiograph on human patients. (CSU)

DENT 186L  Clinical Dental Radiology Lab
(½ unit)(Corequisite: Dental Assisting 186. One and one-half laboratory hours weekly.)
This lab involves exposing patients to x-rays for the purpose of producing dental radiographs for diagnostic examination by a dentist. It includes exposure, developing, mounting, and then sending full mouth sets of radiographs to a patient's dentist. (CSU)

DENT 187  Dental Assisting Clinical/Technique Practicum
(1 unit)(Prerequisite: Dental Assisting 176. Three laboratory hours weekly.)
A laboratory practicum to provide individual self-study practice in specific areas relating to radiology and/or extended functions as defined by a faculty member in the Dental Assisting Department. (CSU)
DENT 188 Clinical Application: Chairside Functions and Operative Procedures
(6 units) (Prerequisite: Dental Assisting 176. Dental assisting students must have CPR, Hepatitis B, and tetanus vaccinations before going to the dental school. Two lecture/seminar and twelve clinical hours weekly.)

Clinical practice utilizing four-handed dentistry at chairside including extended functions in general dentistry delegated to the dental assistant and the Registered Dental Assistant by the California Dental Practice Act. (CSU)

DENT 190 Dental Practice Management and Economics
(1 unit) (Prerequisite: Dental Assisting 176. Corequisite: Dental Assisting 190L. One lecture hour weekly.)

A dental office management course designed to develop basic skills and background in all phases of dental reception functions and office management procedures to include: computer management, oral and written communication, bookkeeping skills, case presentation and financial arrangements, insurance processing, banking procedures, computing salaries and tax records, and job seeking skills, i.e., interview techniques and resumes. (CSU)

DENT 190L Dental Practice Management and Economics Lab
(1 unit) (Corequisite: Dental Assisting 190. Three laboratory hours weekly.)

This lab includes hands-on training in computer management, written communication, bookkeeping, case presentation, financial arrangement, insurance and banking processing, and computing salaries and taxes. (CSU)

DENT 192 Clinical Application in Dental Office
(3½ units) (Prerequisite: Dental Assisting 176. Four lecture/seminar and thirty laboratory hours weekly for four weeks during summer session.)

Students will intern in dental offices to practice utilization of four-handed technique in extended functions as delegated to the dental assistant and Registered Dental Assistant by the California Dental Practice Act. (CSU)

DIRECTED STUDY COURSES

249ABC Directed Study
(1-3 units) (Limit to Enrollment: One course in the discipline and/or prerequisite(s) determined by the appropriate discipline. Three laboratory hours weekly per unit.)

Directed study courses are offered in most disciplines and are designed to give students an opportunity to participate in independent study and in enriched academic experiences not covered within the scope of available curriculum offerings. Students plan and execute a project under an instructor’s direction. Students interested in registering for directed study should contact the discipline instructor to obtain an Application for Directed Study (instructor contract). The completed Application for Directed Study and an Add Card must then be submitted to the Office of Admissions and Records. Students are limited to 4 enrollments of directed study (maximum 12 units). Directed study courses may be taken more than once for credit provided the same topic is not repeated.

DRAMA COURSES

DRAM 39 Selected Topics (Nondegree Applicable)
(½-6 units) (Please see Selected Topics category.)

DRAM 90 Careers in Performing Arts
(1 unit) (No prerequisite. One lecture hour weekly.)

The student will explore various performing arts professions, including stage management, lighting, sound, set design, scenic painting, costuming, makeup, theatre management, and performance, through lecture, discussion, and a series of guest artist appearances. May be taken twice for credit.

DRAM 110 Introduction to the Theatre
(3 units) (No prerequisite. Three lecture hours weekly.)

A survey course designed to create an appreciation of the theatre by the student not majoring in drama and an orientation course for the drama major. Areas to be covered include the purpose of theatre, significant milestones in theatre history, a behind-the-scenes look at play production, and trends in contemporary theatre. Lectures are combined with viewing of live and videotaped scenes representing different types of theatre. Required for drama majors. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A

DRAM 116 Survey of Dramatic Literature - Ancient Greek to the Present
(3 units) (No prerequisite. Three lecture hours weekly.)

This course is a survey of the history of the theatre and dramatic literature from the Greek classic period to the present. Recommended for drama majors. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

DRAM 117 Survey of Dramatic Literature - Shakespeare and His Theatre
(3 units) (No prerequisite. Three lecture hours weekly.)

This course is a study of selected plays of Shakespeare with emphasis on the transferal of the play from the written script to the stage. Recommended for drama majors. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B
DRAM 119  Theatre Criticism
(3 units)(No prerequisite: Advisory: Drama 110. Three lecture hours weekly.)
Students will learn the art of criticism through attending plays and reading theatrical literature as well as conducting an in-depth study of theatre critics and aestheticians. After gaining a foundation in criticism, students will go out to plays and critique them. (CSU/UC)
AA/AS Area C

DRAM 122  Summer Theatre Outreach
(6 units)(Prerequisite: Audition based upon a standardized level of performance. Sixty-four lecture hours and ninety-six laboratory hours of rehearsal and performances.
This course is an intensive drama workshop involving music, dance, and theatre, in which students create and perform an original show. May be taken four times for credit. (CSU)

DRAM 124  Acting for Anybody: Basic Acting
(3 units)(No prerequisite. Three lecture hours weekly.)
A course for actors and nonactors alike, this course is designed to help students communicate with one another, overcome shyness and improve acting skills through the creation and performance of original scenes. May be taken four times for credit. (CSU/UC)

DRAM 125  Stage Movement
(2 units)(No prerequisite. One lecture hour and three laboratory hours weekly.)
This course is the study and practice of the art of physical theatre. Laban, Grotowski, Suzuki and others will be explored in this movement intensive. Actors are rarely in control of their bodies even though they are the essential tools of the actors. This class addresses the need for mastery over the physical realm in theatre. Recommended for all actors and required for all theatre majors. (CSU/UC)

DRAM 126  Improvisation for the Theatre
(3 units)(No prerequisite. Three lecture hours weekly.)
Improvisation is a participatory class in which students will practice skills necessary to support improvised performances. Students will be engaged in activities that will draw upon their ability to relax, to concentrate, and to respond spontaneously and honestly. This class will call upon and extend students’ imagination and will provide opportunities to practice narrative skills. The class will culminate in a series of public performances. May be taken four times for credit. (CSU/UC)

DRAM 127  Improvisation Performance
(2 units)(No prerequisite. Advisory: Drama 126. One lecture and four laboratory hours weekly.)
This course is designed for students to rehearse as an ensemble, develop performance skills, and perform on a bi-weekly or weekly basis. May be taken four times for credit. (CSU/UC)

DRAM 128  Improvisation II
(3 units)(No prerequisite. Advisory: Drama 126. Three lecture hours weekly.)
This course is an intermediate improv class for students with prior improv experience. We will explore ensemble performance and become adept at different improv genre: narrative, long form, social commentary, and dramatic improv. May be taken four times for credit. (CSU/UC)

DRAM 129  Voice for the Stage
(1 unit)(Prerequisite: Drama 131. Two lecture hours weekly for eight weeks.)
This class teaches students how to control the instrument that is their voice. Students will explore various vocal techniques and look at differences in the British and American systems of voice acting. This class is recommended for all actors and required for all drama majors. (CSU)

DRAM 130  Theory and Practice in Acting I
(3 units)(No prerequisite. Corequisite: Drama 134. Three lecture hours and one laboratory hour weekly.)
Beginning class in acting techniques. Exercises in characterization, pantomime, improvisation, voice projection, and body movement. Required for drama majors. Combinations of Drama 130, 131, and 230 may be taken a total of four times for credit. (CSU/UC)
CSU Area C-1

DRAM 131  Theory and Practice in Acting II
(3 units)(No prerequisite. Advisory: Drama 130 and 134. Three lecture hours and one laboratory hour weekly.)
Emphasis is on the creation and analysis of a character through intensive rehearsal of scenes. Recommended for drama majors. Combinations of Drama 130, 131, and 230 may be taken a total of four times for credit. (CSU/UC)

DRAM 134  Acting for Director’s Workshop
(1 unit)(No prerequisite. Approximately fifty-two laboratory hours of rehearsal and performances.)
Acting in student-directed scenes from Drama 240: Stage Direction. Audition, rehearsal and performance in student-directed scenes. Audition and performance time to be arranged. May be taken four times for credit. (CSU/UC)

DRAM 136  Acting For Television
(3 units)(No prerequisite. Three lecture hours weekly.)
This course examines the fundamentals of performing for video and includes exercises in the acting of scenes or short plays in a workshop situation. The student will gain experience in the writing, adaptation, directing, and acting of scenes and/or short plays in a workshop situation. The final project will be a videotaped performance of the student works. (CSU/UC)
DRAM 137  Stage Combat  
(½ unit)(No prerequisite. One and one-half laboratory hours weekly.)  
This class covers the history, theory and practice of recreating fights for the stage. Students will learn about a controlled simulated approach to performing punches, slaps, falls and choreographed sword work. The history of personal combat will also be covered. Recommended for drama majors. (CSU)

DRAM 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

DRAM 140  Theatre Workshop  
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)  
This course offers students experience in preparing for a theatrical production. Costuming, makeup, lighting, and simple stagecraft will be incorporated into an open-ended experimental workshop. Students are encouraged to direct, design, produce, and perform showcase productions. May be taken four times for credit. (CSU/UC)

DRAM 142  Children’s Theatre Workshop  
(3 units)(No prerequisite. Three lecture hours weekly.)  
This course offers students methods for organizing, selecting, and producing plays for children. Techniques for acting and directing children’s theatre will be analyzed. A production will be rehearsed and performed. The goals of this course are to give students the opportunity to perform in theatre for children. May be taken four times for credit. (CSU)

DRAM 143  Storytelling and Personal Narratives  
(3 units)(No prerequisite. Three lecture hours weekly.)  
This class gives students an opportunity to conceive and perform original stories in a workshop setting. Good for all levels, from early childhood educators to potential performing artists and monologists. May be taken four times for credit. (CSU)

DRAM 144  Comedy Theory and Technique: Comedy 101  
(3 units)(No prerequisite. Three lecture hours weekly.)  
This course is a practical study of comedy from pratfalls to stand-up. A hands-on class designed to help actors and nonactors develop their funny bone. May be taken twice for credit. (CSU/UC)

DRAM 150  Introduction to Technical Theatre  
(3 units)(No prerequisite. Three lecture hours weekly.)  
History, theory, and practice of theatre production. Basic principles in scenic design and construction, lighting design and equipment, and costume design and construction. Required for drama majors. May be taken four times for credit. (CSU/UC)  
CSU Area C-1

DRAM 151  Scenic Construction Techniques  
(3 units)(Prerequisite: Drama 150. Corequisite: Drama 161. Two lecture and three laboratory hours weekly.)  
Theory and practice in scenic production techniques. Basic principles of design and construction. Practical experience in lab on departmental productions. Required for drama majors. May be taken four times for credit. (CSU/UC)

DRAM 152  Costume Construction Techniques  
(3 units)(Prerequisite: Drama 150. Corequisite: Drama 162. Two lecture and three laboratory hours weekly.)  
A history of costume for stage use. Design and construction of costumes for production. May be taken four times for credit. (CSU/UC)

DRAM 153  Theatrical Lighting and Sound  
(3 units)(Prerequisite: Drama 150. Corequisite: Drama 163. Three lecture hours weekly.)  
The natures of light, color, electricity, and stage lighting equipment, and their application to planning lighting for productions. The elements and use of sound for theatrical productions. May be taken four times for credit. (CSU/UC)

DRAM 160  Stage Production  
(1 unit)(No prerequisite. Fifty-two and one-half laboratory hours per semester.)  
This is a general course in the practical aspects of stagecraft. Areas covered will be set construction, properties construction, costume construction, stage lighting, stage rigging, and sound operation. This course is open to all students, but must be taken by the actors cast in the semester’s production. May be taken four times for credit. (CSU/UC)  
CSU Area C-1

DRAM 161  Production Preparation and Crew - Sets and Properties  
(1-2 units)(No prerequisite. Approximately fifty-two and one-half laboratory hours required per unit.)  
Practical participation in the construction of scenery and properties for a production, and involvement in a backstage crew assignment during performances of departmental productions. May be taken four times for credit. (CSU/UC)  
CSU Area C-1

DRAM 162  Production Preparation and Crew - Costumes  
(1-2 units)(No prerequisite. Approximately fifty-two and one-half laboratory hours required per unit.)  
Practical participation in the construction of costumes for a production, and involvement in a backstage costume crew assignment during performances of departmental productions. May be taken four times for credit. (CSU/UC)
DRAM 163  Production Preparation and Crew - Lights and Sound  
(1-2 units)(No prerequisite. Approximately fifty-two and one-half laboratory hours required per unit.)  
Practical application of lights and sound for a production, and involvement in a light or sound crew assignment during performances of departmental productions. May be taken four times for credit. (CSU/UC)

DRAM 166  Stage Makeup: Theory and Practice  
(1 unit)(No prerequisite. Three laboratory hours weekly.)  
Designed for students and members of the community interested in the art of makeup for the theatre. Course will include beards, character, ethnic, old age, animals, and stylized makeup. Students are encouraged to experiment and form their own designs. Students are required to purchase their own materials. May be taken four times for credit. (CSU/UC)

DRAM 167  Theatrical Design - Lights, Costumes, Scenery  
(3 units)(Prerequisites: Drama 150 and either Drama 151 or 152 or 153. Corequisite: Drama 160 or 161 or 162 or 163. Two lecture and three laboratory hours weekly.)  
An approach to theatrical design for all students of drama with a comprehensive study of composition, texture, line, balance, and color. May be taken four times for credit. (CSU/UC)

DRAM 168  Theatre Management  
(1½ units)(No prerequisite. One lecture and one and one-half laboratory hours weekly.)  
This course is an introduction to the principles and practice of stage and theatrical management. This course covers theatre financing, box office operations, stage and house management procedures, promotion and publicity. Strongly recommended for all theatre majors and required for theatre internship students. (CSU)

DRAM 217  Shakespearean Text Analysis for the Actor  
(2 units)(No prerequisite. Corequisite: Drama 245. One lecture and three laboratory hours weekly.)  
This class will cover the techniques necessary for the actor to analyze the text of a play by William Shakespeare in order to prepare for the performance of a role in a Drama Department production. The focus will be on verse and prose speaking, discovery of character through the language and historical stylistic approach to the performance of Shakespeare on stage. May be taken four times for credit. (CSU/UC)

DRAM 230  Advanced Acting Techniques  
(3 units)(Prerequisite: Audition based upon a standardized level of performance. Evidence of successful completion of audition must be obtained from the Drama Department PRIOR to registration. Three lecture hours and one laboratory hour weekly.)  
Emphasis on intensive preparation and analysis of major roles in selected scenes from plays of various types and periods. Combinations of Drama 130, 131, and 230 may be taken a total of four times for credit. (CSU/UC)

DRAM 231  Advanced Techniques for the Rehearsal and Performance of Contemporary Dramatic Works  
(4 units)(Prerequisite: Audition based upon a standardized level of performance for roles in College productions. One lecture and nine laboratory hours weekly.)  
A concentrated laboratory workshop for the advanced acting student in advanced techniques of rehearsal and performance of the more demanding and less well-known works of the contemporary and classic theatre. Students in this class will also assume the necessary technical duties required for production. May be taken four times for credit. (CSU/UC)

DRAM 237  Techniques of Audition  
(½ unit)(Prerequisite: Drama 131 and audition. One and one-half laboratory hours weekly.)  
This course is a workshop for acting students which covers the techniques of the audition process and how to prepare for auditions including memorizing monologues, cold reading from scripts, interview techniques, resume preparation and finding a suitable monologue. May be taken four times for credit. (CSU)

DRAM 238  Video Performance Workshop  
(4 units)(Prerequisite: Drama 136. Four lecture hours weekly.)  
This class is designed to provide students with an intensive experience in acting for the video camera. The class will involve the completion of a series of short dramatic and institutional projects. The emphasis will be on eliciting the best possible performance from an actor in a television studio environment. (CSU/UC)

DRAM 240  Stage Direction  
(3 units)(No prerequisite. Advisory: Drama 110, 130, and 134. Two lecture and three laboratory hours weekly.)  
The transference of the written script into live action on the stage. Auditions, casting, rehearsal techniques, fundamentals of composition, movement, characterization, and interpersonal relationships as used in the production of plays. May be taken four times for credit. (CSU/UC)
**DRAM 245 Rehearsal and Performance**
(4 units)(Prerequisite: Audition based upon a standardized level of performance for College productions. Corequisite: Drama 160. Total of 210 laboratory hours over nine weeks.)
Supervised activity in acting in the regularly scheduled production of plays. Minimum of three weekly lab hours and Drama 160 are required during preproduction in one of the technical areas. May be taken four times for credit. (CSU/UC)
CSU Area C1

**DRAM 246 Rehearsal and Performance of a Modern Comedy**
(4 units)(Prerequisite: Audition based upon a standardized level of performance for College productions. Corequisite: Drama 160. Total of 210 laboratory hours over nine weeks.)
Supervised activity acting in a modern comedy in the regularly scheduled production of plays by modern comedy authors. A minimum of three weekly laboratory hours and Drama 160 are required during preproduction in one of the technical areas: sets, lights, or costumes. May be taken four times for credit. (CSU/UC)

**DRAM 249 Directed Study**
(1-3 units)(Limit to Enrollment: Prior arrangement with instructor.)
Directed study in drama is offered to give students experience in planning a course of study of a technical project on their own initiative under departmental supervision. The directed study should deal with a special interest not covered in a regular course or with the exploration in greater depth of a subject presented in a regular course. Evaluation will be through conferences and written report(s) as determined by the student and instructor. May be taken more than once for credit. (CSU/UC w/limit)

**DRAM 252ABC Seminar and Fieldwork Experience**
(2-4 units)(Prerequisite: Drama 150 or 168. One lecture and four fieldwork hours weekly for two units; one lecture and eight fieldwork hours weekly for three units; one lecture and twelve fieldwork hours weekly for four units.)
This course is designed to give theater students meaningful work experience in the areas of technical theater, theater management and acting. Each student will work in a theater, theater company or production company under the supervision of someone employed there. In the one-hour weekly seminar, students will evaluate their work in the field and share their experiences of the professional world with their peers. May be taken additional semesters, up to a course total of eight units (CSU)

**DRAM 260 Musical Theatre Production Workshop**
(4 units)(Prerequisite: Audition based upon a standardized level of performance for roles in College productions. Corequisite: Drama 160. Total of 210 laboratory hours over nine weeks.)
Supervised activity acting in the regularly scheduled production of musical plays. A minimum of three weekly lab hours and Drama 160 are required during preproduction in one of the technical areas. This course will cover acting, musicianship, dance and movement, voice production, and stagecraft. It culminates with the public performance of a full-stage musical. May be taken four times for credit. (CSU/UC)
CSU Area C-1

**EARLY CHILDHOOD EDUCATION COURSES**

**ECE 39 Selected Topics (Nondegree Applicable)**
(½-6 units)(Please see Selected Topics category.)

**ECE 100 Licensing and Permits: Introduction to Childcare Programs**
(½ unit)(No prerequisite. One-half lecture hour weekly.)
This course provides information regarding state requirements for being a teacher in a licensed children's program and for obtaining a Child Development Permit. Coursework requirements for the Associate of Science degree and Career Certificate in Early Childhood Education are reviewed. Information about setting up a family childcare program is also included. This course is required for both the Associate of Science degree and the Career Certificate in Early Childhood Education. It is also recommended for people wishing to learn about career options in Early Childhood Education and for providers already working in the field. Can also be offered in a distance learning format. (CSU)

**ECE 101 Introduction to Child Development**
(3 units)(No prerequisite. Three lecture hours weekly)
This course explores the ages and stages of development from birth to adolescence, describing physical, intellectual, social and emotional growth. Emphasis is on practical application of principles and adult role in supporting optimal growth. This course meets the Department of Social Services licensing requirements for coursework in early childhood education. It also meets requirements for all levels of the Child Development Permits. (D.S. # 1)
### ECE 110 Child Development
*(3 units)* *(No prerequisite. Three lecture hours weekly.)*

The physical, social-emotional, cognitive and language development of children from conception to adolescence are explained. Implications of developmental understanding for care-giving strategies are included, with emphasis on practices in early childhood and early elementary education and child rearing. This course is required by the Department of Social Services to satisfy licensure requirements for coursework in ECE. It is also required for all levels of the Child Development Permits. *(D.S. #1) (CSU/UC)*

**AA/AS Area B, CSU Area D-7, IGETC Area 4**

### ECE 112 Child, Family, and Community
*(3 units)* *(No prerequisite. Three lecture hours weekly.)*

Explores the impact of the community and society on young children and their families. Components of the course include an overview of different types of families and parenting styles; the influence of media and politics on children and families; the effect of the community; current legislation, education, and public policy on children and families; examination of values, family roles, and place in society of diverse cultures and ethnic groups in the United States; and problems confronting children and their families today. *(D.S. #2) (CSU)*

**AA/AS Area B, CSU Area D-7**

### ECE 114 Introduction to Early Childhood Education
*(3 units)* *(No prerequisite. Three lecture hours weekly.)*

This course is intended as an introduction to the field and study of early childhood education. It includes a survey of various types of early childhood programs, the different career paths in this field, an examination of leading philosophies of early childhood education, and an overview of the domains of child development. Students will also learn group management techniques to use in a classroom setting; why play is so important in the early childhood curriculum and how to observe children and write child observations. This course also offers an exploration of the roles and challenges associated with being a teacher of young children. *(D.S. #3) (CSU)*

### ECE 115 Introduction to Early Childhood Curriculum
*(3 units)* *(No prerequisite. Three lecture hours weekly.)*

In this course students will learn how to plan, design and present activities for areas of the early childhood curriculum such as art, music, movement, circle times, pre-math, language, physical knowledge, emergent literacy, and cultural diversity. Approaches for setting up classrooms, developing anti-bias materials, managing and supervising groups of children are also included. *(D.S. #3) (CSU)*

### ECE 120 Planning and Teaching an After School Program
*(1 unit)* *(No prerequisite. Sixteen lecture hours per semester.)*

This course includes age-appropriate activities for after school programs, aspects of after school care, and strategies for working with and understanding children in after school settings. *(D.S. #5) (CSU)*

### ECE 131A Health, Safety, and Nutrition Practices for Young Children
*(1 unit)* *(No prerequisite. Can be taken for credit as Early Childhood Education 131A or Physical Education 131A. However, credit will be awarded for only one course. Two lecture hours weekly for eight weeks.)*

In this course students will learn about universal health precautions, O.S.H.A. guidelines, planning classroom nutrition programs, and other current health and safety practices to use when working with young children. Other topics include emergency plans for earthquakes, how to recognize and report suspected child abuse, and injury prevention for young children. *(D.S. #7) (CSU)*

### ECE 131B Health, Safety, and Nutrition Practices for Young Children
*(1½ units)* *(No prerequisite. Can be taken for credit as Early Childhood Education 131B or Physical Education 131B. However, credit will be awarded for only one course. Two lecture hours weekly for twelve weeks.)*

In this course students will learn about universal health precautions, O.S.H.A. guidelines, planning classroom nutrition programs, and other current health and safety practices to use when working with young children. Basic First Aid training is featured in this course. Other topics include emergency plans for earthquakes, how to recognize and report suspected child abuse, and injury prevention for young children. Certificates will be issued upon completion of Pediatric First Aid training. *(D.S. #7) (CSU)*

### ECE 131C Health, Safety, and Nutrition Practices for Young Children
*(2 units)* *(No prerequisite. Can be taken for credit as Early Childhood Education 131C or Physical Education 131C. However, credit will be awarded for only one course. Two lecture hours weekly for sixteen weeks.)*

In this course students will learn about universal health precautions, O.S.H.A. guidelines, planning classroom nutrition programs, and other current health and safety practices to use when working with young children. Pediatric CPR and basic First Aid training are featured in this course. Other topics include emergency plans for earthquakes, how to recognize and report suspected child abuse, and injury prevention for young children. Certificates will be issued upon completion of CPR and Pediatric First Aid training components. *(D.S. #7) (CSU)*
ECE 132  Planning and Leading Circle Times with Young Children
(1 unit)(No prerequisite. One lecture hour weekly.)
Includes approaches for planning and leading circle times for preschoolers, toddlers, school-agers and mixed age groups. Features ideas for materials, songs and activities for circle times and strategies for managing groups and guiding young children during circle times. This course can be applied towards licensing and Child Development Permit coursework requirements in the subject area of Programs and Curriculum. (D.S. #3) (CSU)

ECE 133  Creative Art Curriculum for Young Children
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)
In this course students will learn how to plan, design and present a process-oriented art curriculum for young children. Through in-class hands-on art activities students will sample a variety of media for children. An overview of current trends in early art education is also included. (D.S. #3) (CSU)

ECE 134  Understanding Young Children's Temperaments
(1 unit)(No prerequisite. One lecture hour weekly.)
How to work with children of different temperament types; examination of the different temperament types; overview of research on temperament and children; how to recognize the different temperamental traits, strategies and approaches for working successfully with young children of different temperamental types in group care and classroom settings. (D.S. # 1) (CSU)

ECE 135  Working With Children's Challenging Behavior
(2 units)(No prerequisite. Two lecture hours weekly.)
In this course students will be provided with descriptors and characteristics of challenging behavior in young children in early childhood classroom settings. Strategies and approaches for managing children's challenging behavior are featured. In addition methods for working with parents when their child displays challenging behavior and for locating outside help are also included. (D.S. #3) (CSU)

ECE 137  Emergent Literacy in the Early Childhood Classroom
(3 units)(No prerequisite. Three lecture hours weekly.)
This course introduces students to the early literacy curriculum. It includes methods for setting up a classroom and planning curriculum to foster the development of pre-reading and pre-writing skills. Strategies for working with children who speak languages other than English are also included. Approaches for involving families in supporting language and literacy development in children are covered. Students will also learn about methods for assessing children's skills in speaking, pre-reading, and pre-writing. The curriculum for this course is based on NAEYC's “Heads Up! Reading” Early Literacy Program and features videos and/or broadcasts from the NAEYC’s “Heads Up! Reading” satellite course. (D.S. #3) (CSU)

ECE 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

ECE 205  Continuing Experiences in Early Childhood Curriculum
(3 units)(Prerequisite: Early Childhood Education 114. Three lecture hours weekly.)
This course provides information, ideas, and hands-on experience in exploring a variety of innovative curriculum models such as “the emergent curriculum," the “Project Approach," and the “Reggio Emilia Approach." Students will explore strategies and approaches for developing long-term projects with your children. Approaches for “documenting and recording" children’s experiences in long-term projects are also included. (D.S. #3) (CSU)

ECE 208  Exploring Cultural Diversity in the Early Childhood Classroom
(3 units)(No prerequisite. Three lecture hours weekly.)
In this course students will become familiar with the concepts of cultural diversity, the anti-bias curriculum and culturally competent approaches to care giving and communicating with families of children they serve. Ideas and examples for creating culturally diverse classroom materials and activities are provided. An in-depth exploration of the anti-bias curriculum and approaches for implementing it are a feature of this course. In addition, the course includes an examination of what it means to become a culturally competent early childhood educator. (CSU)

ECE 217  Fostering Creativity in the Classroom
(2 units)(No prerequisite. Two lecture hours weekly.)
This course offers a variety of strategies and hands-on ideas for fostering creativity in young children. It examines aspects of creative thinking and provides methods for planning creative activities in all curriculum areas. This course satisfies the "Programs and Curriculum" requirement for licensing and can be applied toward coursework for a Child Development Permit. (D.S. #3) (CSU)

ECE 218  Caring for the Infant and Toddler
(3 units)(No prerequisite. Three lecture hours weekly.)
This course covers approaches, techniques, and materials to use in caring for infants and toddlers in a program setting. Methods for developing age-appropriate curricula and setting up environments are included. This course can be applied toward credit in infant-toddler care required by the Department of Social Services and toward credit for the Child Development Permits. (D.S. #4) (CSU)
ECE 219 Creating Quality Programs for Infants and Toddlers
(3 units)(No prerequisite. Three lecture hours weekly.)
This course focuses on how to develop a quality program for infants and toddlers in group care and how to provide for their needs, growth, and interests day to day. The importance of the caregiver’s role, building a relationship with parents, an examination of criteria for quality infant/toddler programs is also included. It is recommended for staff working in infant/toddler programs. (CSU)

ECE 220A Early Childhood Education Administration A
(3 units)(No prerequisite. Three lecture hours weekly.)
This course covers information and methods for developing, teaching, and administering a preschool program. Topics include a survey of types of preschool programs, how to staff and plan a budget for a preschool program, the role of an administrator, setting up preschool environments, and planning for children. This course can be applied toward the administration course requirement for the Site Supervisor and Program Director Child Development Permits. This course is recommended in particular to directors and head teachers seeking credit in early childhood education administration. (D.S. #6) (CSU)

ECE 220B Early Childhood Education Administration B
(3 units)(Prerequisite: Early Childhood Education 220A. Early Childhood Education 220A may be taken concurrently. Three lecture hours weekly.)
This course provides in-depth examination of such aspects of early childhood program administration as parent involvement, obtaining child and family histories, implementing regulation requirements, program evaluation procedures, child assessments, staff supervision, and nutrition programs. Administration of Title 5 childcare programs is also examined. This course can be applied toward credit needed for Site Supervisor and Program Director Child Development Permits. This course is recommended in particular for directors, head teachers, and teachers seeking an advanced early childhood administration course. (D.S. #6) (CSU)

ECE 221 Teaching Science to Young Children
(2 units)(No prerequisite. Two lecture hours weekly.)
In this course students learn how to design and present developmentally appropriate science curricula for young children. Included are hands-on science activities with recommended materials. Young children’s thinking and other cognitive processes are also examined. This course can be applied toward state licensing and Children’s Center Permit requirements for coursework in “Programs and Curriculum.” (D.S. #3) (CSU)

ECE 222 Working with Special Needs Children in Early Childhood Classrooms
(2 units)(No prerequisite. Two lecture hours weekly.)
This course prepares students to work with infants, toddlers, and preschoolers with special needs in a classroom setting. It includes approaches for assisting special needs children in classroom routines; assessing and identifying special needs; writing an Individual Education Plan, and working with parents of special needs infants, toddlers, and preschoolers. (CSU)

ECE 223 Music Activities for Young Children
(1 unit)(No prerequisite. Sixteen and one-half lecture hours per semester.)
Through a survey of teaching methods and hands-on music activities, this course enables students to develop a rich and enjoyable music program for young children, understand basic musical concepts, present culturally diverse music activities, and foster reading and math readiness through music. This course meets the Department of Social Services’ requirement for coursework in the area of “Programs and Curriculum.” (D.S. #3) (CSU)

ECE 224 Working with Parents in Early Childhood Programs
(2 units)(No prerequisite. Two lecture hours weekly.)
In this course students learn approaches and techniques for working with parents in infant/toddler, preschool and extended day programs. It includes strategies for planning and leading parent-teacher conferences, effective techniques for communicating with parents, and ideas for parent involvement in early childhood programs. (CSU)

ECE 225 Guidance and Limit-Setting in the Early Childhood Classroom
(2 units)(No prerequisite. Two lecture hours weekly.)
Strategies and approaches for guiding and setting limits with young children in classroom settings are presented and explored in this course. Guidance and limit-setting techniques for working with toddlers, preschoolers, and school-age children are included. Also featured are methods for assisting young children in conflict resolution. (D.S. #3) (CSU)

ECE 239 Current Issues in Early Childhood Education
(1-3 units)(No prerequisite. Hours will vary with selected topic.)
Specialized and contemporary topics in the area of early childhood education are the focus of this course. The subject matter will vary with the needs and interests of the students. The course content will also be designed to meet educational requirements for Department of Social Services licensing and Child Development Permit attainment. The specific topic for each semester will be announced in the class schedule. The class may be taken more than once, provided that the topic of the course is not the same. (D.S. #3) (CSU)
ECE 249  Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

ECE 260  Marin Childcare Conference and Follow-up One-Day Workshop  
(1 unit)(No prerequisite. Sixteen hours per semester.)

Part I of this course is a day conference (eight hours) for childcare providers and any other interested parties. Participants may choose from mid-morning and afternoon workshops on current issues, trends, and policies in early childhood education. A keynote presentation is also included. This conference is held off-campus.

Part II consists of a one-day workshop (eight hours) in which instructor reviews and expands on topics that have been presented in conference workshops (i.e. implementing new curriculum ideas or new licensing policies utilizing new approaches for special education at early childhood level). Part II of this course is held on the Kentfield campus. May be taken four times for credit.  
(CSU)

ECE 261  One-Day Conference Course  
(½ unit)(No prerequisite. Eight lecture hours for one day.)

This is a one-day, eight-hour conference course. Topics and content of this course may vary. This course can be used to meet professional growth requirements for renewal of the assistant teacher, teacher, master teacher, site supervisor, or director level of child development permit. May be taken four times for credit.  
(CSU)

ECE 280  Early Childhood Education Fieldwork and Seminar I: Beginning Practicum in Student Teaching  
(4½ units)(Prerequisite: Early Childhood Education 115. Advisory: Early Childhood Education 114. One and one-half seminar and twelve fieldwork hours weekly.)

This course provides student teaching experience in the campus children's center classrooms or in early childhood classrooms off campus. Students plan and lead activities for children, set up classroom projects, and meet regularly with their supervising teacher. Included in this course is a seminar, which meets either for one and one-half hours a week or three hours every other week. (Please check current class schedule.) It provides students with opportunities to learn about skills for working effectively with young children in classroom settings and to discuss experiences in present teaching placements.

In accordance with the licensing requirements of the Department of Social Services, the early childhood education practicum courses require that students be fingerprinted and complete the Department of Social Services forms for adults participating in a licensed children's program. To do so, students are to make an appointment with the Early Childhood Education Program Coordinator prior to beginning the practicum courses in order to complete forms or to verify that they already have these forms on file with the Department of Social Services.

Students who wish to do their teaching off campus are required to be at a site that meets at least one of the Early Childhood Education Program's criteria for off-campus student teaching. (D.S. #3) (CSU)

ECE 281  Early Childhood Education Fieldwork and Seminar II: Advanced Practicum in Student Teaching  
(4½ units)(Prerequisite: Early Childhood Education 280. One and one-half seminar and twelve fieldwork hours weekly.)

Students receive advanced training and experience in student teaching in the campus children's center or in early childhood programs off campus. Training includes developing effective classroom management and child guidance techniques, as well as planning and leading activities in all areas of the early childhood curriculum. A seminar is included in this course in which students will learn about and discuss teaching strategies and techniques to be used at an advanced level of student teaching.

To enroll in this course students must have completed and submitted all forms required for early childhood education practicum courses. Students who wish to do their student teaching off campus are required to be at a site which meets at least one of the Early Childhood Education Program's criteria for accepted off-campus teaching sites. (D.S. #3) (CSU)

ECE 295  Supervising Adults in Early Childhood Programs  
(2 units)(No prerequisite. Two lecture hours weekly.)

This course offers methods for working with, supervising, and training staff and student teachers in a childcare setting. Topics include an examination of effective supervisory styles, approaches for motivating staff, perspectives on staff members as adult learners, methods for evaluating and conferring with staff, and strategies for assisting staff in assessing their classroom, curriculum, and interactions with children.

This course is recommended for teachers, head teachers, directors, and site supervisors who are currently supervising or wish to supervise staff or student teachers in their programs. It is a requirement for anyone who wishes to obtain a Site Supervisor or Program Director Child Development Permit. (D.S. #7) (CSU)
ECONOMICS COURSES

ECON 39  Selected Topics (Nondegree Applicable)
(1½-6 units)(Please see Selected Topics category.)

ECON 101  Principles of Macroeconomics
(3 units)(No prerequisite. Advisories: Eligibility for English 120 and eligibility for Math 103. Economics 101 and Economics 102 may be taken in either order. Three lecture hours weekly.)

This course is an introduction to macroeconomic analysis, the economy as a whole. The student will study the determinants of GDP (gross domestic product), employment, income, savings, and investment. Emphasis is placed upon the study of government intervention in the economy through fiscal policy and monetary policy aimed at reducing economic fluctuations. Includes a brief history of economic theory and an introduction to monetarism. (CSU/UC)
AA/AS Area B, CSU Area D-2, IGETC Area 4, CAN ECON 2

ECON 102  Principles of Microeconomics
(3 units)(No prerequisite. Advisories: Eligibility for English 120 and eligibility for Math 103. Economics 101 and Economics 102 may be taken in either order. Three lecture hours weekly.)

This course is an introduction to microeconomic analysis, how the various units in the economy make decisions. The student will study the scarcity, demand, supply, equilibrium price and the allocation of resources in market structures of pure competition, monopolistic competition, oligopoly, and monopoly. This course includes an introduction to international economics. (CSU/UC)
AA/AS Area B, CSU Area D-2, IGETC Area 4, CAN ECON 4

ECON 125  Research Methods and Term Papers in the Social Sciences
(3 units)(No prerequisite. Advisory: Competence in written language skills comparable to eligibility for English 150. Students may receive credit for this course as Economics 125, Ethnic Studies 125, History 125, Political Science 125, or Social Science 125. However, credit will be awarded for only one discipline. Three lecture hours weekly.)

This course focuses on the elements of critical thinking and methods of research in the social sciences and develops skills required to organize such thought and research into effective, college level presentations. Various social science faculty members will offer their expertise to students on an individual basis as they develop their presentations. Students are encouraged to select areas of research from other courses taken during the semester or from areas of special interest including politics, history, economics, education, women’s studies, ethnic studies, current issues, and issues of community concern.

Economics 125 is designed for students who want the research and term paper skills, but are not working for satisfaction of the Critical Thinking Requirement (A, III) for the Bachelor of Arts degree at California State University. Social Science 125 does meet that requirement. (CSU/UC)

ECON 139  Selected Topics
(1½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

ECON 201  Understanding Globalization: The Impact of Social, Political, and Economic Change
(3 units)(No prerequisite. Can be taken for credit as Economics 201 or Political Science 201 or Social Science 215. However, credit will be awarded for only one discipline. Three lecture hours weekly.)

The world is becoming more integrated and interdependent; heightening the need for greater understanding of the impact of globalization on the economy, politics, and society. This interdisciplinary team-taught course explores the new wave of global political, economic, and social change and the opportunities and challenges it brings to states, institutions, and individuals. Focus is upon what the individual will need to know and understand to be an effective participant in these rapidly changing global phenomena. (CSU/UC)
AA/AS Area B, CSU Area D-7, IGETC Area 4

ECON 215  Survey of Current Events and Issues
(3 units)(No prerequisite. Can be taken for credit as Economics 215 or Political Science 215 or Social Science 215. However, credit will be awarded for only one discipline. Three lecture hours weekly.)

This course is an opportunity to critically examine and discuss significant world developments and to attempt to understand the sources of those developments. Each student will have an opportunity to focus on issues of particular interest and to share that information with the group. When possible, informed participants in world and national events will meet with the class to share insights. (CSU/UC w/limit)

ECON 249  Directed Study
(1-3 units)(Please see Directed Study category.) (CSU/UC w/limit)

EDUCATION COURSES

EDUC 39  Selected Topics (Nondegree Applicable)
(1½-6 units)(Please see Selected Topics category.)

EDUC 110  Introduction to Education
(3 units)(No prerequisite. Three lecture hours weekly.)

This course is an introduction to the field of public education for those interested in teaching and learning. This course includes information about school governance, the nature of teaching as a profession, and the philosophies of education. (CSU/UC)

EDUC 111  Foundations of Teaching
(3 units)(No prerequisite. Three lecture hours weekly.)

This course explores what it means to be a professional teacher in today’s high-stakes environment of education. Building upon a strong mentoring approach, this course helps students make decisions about their teaching future by fostering an awareness of the realities of teaching in America today. This approach provides students with the tools and information necessary to explore what
it takes to become a professional teacher and choosing teaching as a career. Also included are practical perspectives for meeting the challenges of teaching as well as practical and foundational topics that provide students with a well-rounded view of the teaching profession. (CSU/UC)

EDUC 113 Instructional Design
(3 units)(No prerequisite. Three lecture hours weekly.)
This course will provide a basic knowledge of instructional design. Emphasis will be on developing a final project, which will allow the learner to gain experience while learning the theory and applications of instructional design. There will also be broad exposure to predominant instructional design theories, which will allow the student to choose the one that best suits the purpose at hand. The final project will be in an educational setting. (CSU)

EDUC 119 Effective Teaching Strategies in Wellness and Fitness
(3 units)(No prerequisite. Advisory: Physical Education 116. Three lecture hours weekly.)
This course is designed to help students become more effective wellness and fitness professionals. Students will develop a toolbox of practical teaching, learning, and evaluation methods to increase their ability to convey their knowledge to others in this field and more successfully impact their future clients, students, or athletes. (CSU)

EDUC 122 Understanding Literacy and Creating Effective Learning Environments
(3 units)(No prerequisite. Condition for enrollment: Fingerprint and TB clearance prior to classroom tutoring are required. Two lecture and three hours weekly of field placement in classrooms under the supervision of an experienced mentor teacher and the course instructor.)
This course is designed to give the student practical experience in understanding literacy across the elementary school curriculum and an overview of the skills and knowledge needed to tutor students effectively in reading and related subjects. Critical issues of creating and maintaining effective environments for successful student learning are covered, including physical, social, and academic aspects of the classroom. Elements of the California Standards for the Teaching Profession (CSTP) are embedded in this course. (CSU)

EDUC 139 Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

EDUC 222 Designing and Assessing Learning Experiences for All Students
(3 units)(No prerequisite. Condition for enrollment: Fingerprint and TB clearance prior to classroom tutoring are required. Two lecture and three hours weekly of field placement in classrooms under the supervision of an experienced mentor teacher and the course instructor.)
This course provides an introduction to curriculum planning and classroom assessment in California’s diverse public school settings. The course will cover drawing on and valuing students’ backgrounds, interests, and developmental learning needs in planning for instruction, the purposes of schooling, the experience of school for diverse students, collecting and using multiple sources of information to assess student learning, working with students, families and other audiences about student progress, and using assessments to guide instruction. Elements of the California Standards for the Teaching Profession (CSTP) are embedded in this course. (CSU)

ELECTRONICS TECHNOLOGY COURSES

ELEC 100 Fundamentals of Electronics
(2 units)(No prerequisite. Thirty-four hours per semester.)
Introduction to principles, terminology, and measurements of electrical circuits and electronic systems. Behavior of DC and AC circuits and electronic devices with their applications in automotive, computer, communications, power distribution, and entertainment systems. (CSU)

ELEC 139 Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

ELEC 249 Directed Study
(1-3 units)(Please see Directed Study category.) (CSU w/limit)
ENGG 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

ENGG 110  Careers in Engineering and Technology  
(1 unit)(No prerequisite. One lecture hour weekly.)
This course introduces students to the different branches of engineering, emphasizing the educational requirements and the employment expectations upon completion of a four-year degree program. The course outlines basic lower-division transfer plans in detail and provides an overview of the course work required after transfer. This course helps students select from possible transfer options those that best fit personal needs and career objectives. Engineering 110 is intended for students considering careers in engineering, computer science, or related engineering technologies. (CSU/UC)

ENGG 110B  Introduction to Engineering Design  
(2 units)(No prerequisite. Corequisite: Computer Science 150A. Advisories: Engineering 110 and 125. One lecture and three laboratory hours weekly.)
This course introduces the student to team-oriented engineering design and problem-solving processes, as well as the use of computers in the solution of a wide variety of engineering problems. Students engage in hands-on design activities, covering all stages of the design process from initial need identification through finished product evaluation, including experimental design and data analysis to support design efforts. Throughout the course, emphasis will be given to technical communications, teamwork, engineering design and problem-solving methodologies. Specific assignments and activities within the course represent a broad range of engineering disciplines. (CSU/UC)

ENGG 125  Introductory Engineering Graphics  
(4 units)(No prerequisite. Two lecture and six laboratory hours weekly.)
This course helps students develop the functional skills required for engineering graphical communication, geometric construction, and dimensioning in accordance with ANSI standards. It presents engineering sketching and drawing with an introduction to CAD systems. It also covers the fundamentals of orthographic projection and descriptive geometry, providing applications to engineering design. The course helps students develop their spatial reasoning skills. This course is designed to serve a diversity of disciplines, but with an emphasis on engineering applications. (CSU/UC)

ENGG 126  Intermediate Engineering Graphics  
(2 units)(Prerequisite: Engineering 125. One lecture and three laboratory hours weekly.)
This course is a continuation of Engineering 125 with an emphasis on engineering design and CAD work. Topics include limit dimensioning, geometric tolerancing, working drawings, and the design process. (CSU/UC)

ENGG 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

ENGG 150  Construction Engineering: Materials and Methods I  
(3 units)(Prerequisite: Enrollment in engineering or Engineering Technology Programs for at least one year, or equivalent study and/or employment. Three lecture hours weekly.)
Evaluation and effects of loads on structures, earthwork construction, pipeline and utility construction, tunneling, pavement construction, concrete and concrete construction, masonry construction, and discussion of conversion to metric system throughout the course. (CSU)

ENGG 150B  Programming in MATLAB for Engineers  
(2 units)(Prerequisites: Computer Science 150A and Math 123. Two lecture hours weekly.)
Designed to meet computer programming requirements for engineering transfer students, when combined with the prerequisite COMP 150A course. Students outline, write, test, and debug computer programs to solve problems and display results, with emphasis on proper documentation of computer code and reports. Common examples and applications of physics and engineering are used throughout the course (CSU/UC)

ENGG 151  Construction Engineering: Materials and Methods II  
(3 units)(Prerequisite: Engineering 150. Three lecture hours weekly.)
Steel construction, timber construction, construction surveying, interpretation and administration of contracts, review of contract drawings for a real project constructed for BARTD, and development in class of step-by-step construction procedure. (CSU)
ENGG 156  Intermediate Technical Drawing, with Introduction to CADD
(2 units)(Prerequisite: Engineering 125. Corequisite: Computer Science 110. One lecture and three laboratory hours weekly.)
Continuation of Engineering 125 for technology majors. Conducted simultaneously with Engineering 126, it includes most of the same topics listed below with increased emphasis on drafting skills and more detailed applications in place of topics omitted. A seven-week introduction to computer-assisted design and drafting on the ComputerVision MicroCADDs System. Manual drafting topics include limit dimensions, geometric tolerances, threads and fasteners, working drawings, shop processes, intersections and developments, sheet metal drafting, structural drawings, and machine drawings. Both customary and metric units used. (CSU)

ENGG 210  Engineering Surveying
(3 units)(Prerequisites: Math 121 or 123 and Engineering 125. Two lecture and three laboratory hours weekly.)
This course covers basic concepts and methods of surveying fieldwork and computations for engineering and related fields. Topics include chaining, leveling, traverses, horizontal and vertical curves, stadia, topography, and earthwork. Machine computations, note keeping, adjustment of instruments, and analysis and control of random and systematic errors including least-squares methods are integral parts of the course. (CSU/UC)  

ENGG 220  Electric Circuit Analysis
(3 units)(Prerequisites: Physics 207B, Math 223 and 224. Math 224 may be taken concurrently. Three lecture hours weekly.)
This course is an introduction to the theory and analysis of electric circuits. Natural and forced responses of circuits, solutions by use of differential equations, and steady-state solutions of circuits to which sinusoidal forcing functions have been applied. Consideration of basic circuit elements and concepts of impedance, admittance, energy, power, and signal processing. (CSU/UC)  

ENGG 235  Engineering Mechanics — Statics
(3 units)(Prerequisites: Engineering 125 and Math 124 [either or both may be taken concurrently] and Physics 207A. Three lecture hours weekly.)
Principles of statics of particles and rigid bodies and their application to the solution of structure, frame, and machine problems; shear and bending moments in beams; distributed forces; friction, virtual work; and products of inertia. (CSU/UC)  

ENGG 245  Engineering Materials Science
(3 units)(Prerequisites: Chemistry 131 and Physics 207A. Two lecture and three laboratory hours weekly.)
The internal structures and resulting behaviors of materials used in engineering applications, including metals, ceramics, polymers, and composites, are studied with emphasis on the effects of heat, stress, imperfections, and chemical environments. Laboratories provide direct observations of the structures and behaviors discussed in the course, experience with the operation of testing equipment, and the preparation of experimental reports. (CSU/UC)  

ENGG 249  Directed Study
(1-3 units)(Please see Directed Study category.) (CSU/UC w/limit)  

ENGG 256  Practical Materials Science
(3 units)(No prerequisite. Advisories: Physics, chemistry, and metal shop helpful. Two lecture and three laboratory hours weekly.)
Mechanical properties of metals (with emphasis on steels) and some plastics resulting from their internal structures, methods of production and fabrication, heat treatments, deformations, and chemical environments. Weekly labs include treatments, preparations, standard tests, and examinations of specimens to show clearly how properties such as strength and hardness vary between different materials, and between specimens of the same material that have had different treatments.
Brief coverage of composites (concrete and/or wood) may be included, depending on class composition. (CSU)  

ENGG 257  Practical Plane Surveying
(3 units)(Prerequisite: Math 101 or 102. Corequisite: Math 102G or Math 95K and 95L. Two lecture and three laboratory hours weekly.)
This course is a practical introduction for those not requiring the more professionally oriented Engineering 210. This course presents essential surveying concepts and training in widely used computational and fieldwork procedures. Proper use of tapes, compasses, rods, levels, alidades, and transits is explained for measurement of the distances, directions, and elevations of existing features and staking out control for new construction designs including simple curves and earthwork. Tables, scientific calculators, and computers are used to minimize hand computations and prerequisite mathematics. (CSU)
ENGLISH COURSES

English 98 and 120: Instructor retains option of assigning letter or credit/no credit grade.

English 130, 150, 151, 155: Letter grade only.

All other courses: Letter grade or credit/no credit.

In general, courses required for a transfer student’s four-year major should be taken on a letter grade basis.

The College of Marin offers an English assessment testing service to provide prospective students with information with which to make informed decisions when enrolling in English courses. Students are provided with their test scores. Students registering for English courses who need help in interpreting their individual placement test scores and/or in deciding whether to register for or remain enrolled in an English course can seek assistance from a counselor or their English instructor.

For information about the English Assessment Test, students can call the Testing Office at (415) 485-9469 (located in the Student Services Building, Room 18, Kentfield Campus); or (415) 883-2211, ext. 8326 (located at Indian Valley Campus).

BASIC SKILLS COURSES

ENGL 10 College Skills: Assessment and Improvement Strategies
(1 unit)(No prerequisite. One lecture hour weekly.)

This course will help students develop a comprehensive understanding of their current strengths and weaknesses in the language skills necessary for college success. Included will be complete diagnostic testing in reading, vocabulary, and writing. In addition, various techniques and strategies will be introduced so that each student knows what kind of work is necessary for improvement. Students will have, upon completion, a list of specific skills for further study, a realistic idea of current academic level, an understanding of campus resources available for indepth skills development, and a set of strategies for continued language improvement.

ENGL 11 College Skills: Essential English for Exams
(1 unit)(No prerequisite. One lecture hour weekly.)

This course will focus on the reading, thinking, and writing skills that are necessary to pass standardized English tests like the General Educational Development (GED) high school equivalency exam. Students will receive instruction and practice in the four levels of thinking skills normally tested on these exams. Also, students will learn how to spot grammar and organizational errors in written text and how to plan and organize a 250 word essay from a given topic in order to pass the essay exams. Practice exams will be given for the final. (Non-GED candidates are welcome.)

ENGL 12 College Skills: Reading and Thinking in Math
(1 unit)(No prerequisite. One lecture hour weekly.)

This course is designed for those students who desire their GED diploma or to satisfy College of Marin graduation requirements but who have trouble in math. In this course students will focus on the concepts behind math and begin to analyze the language and symbols of math, the thinking style that is required to do well in math, the benefits of mental calculations and estimating, and start to develop the habit of making math make sense in real life situations.

ENGL 13 College Skills: Participating in Class
(1 unit)(No prerequisite. One lecture hour weekly.)

This course will give students confidence in reading aloud, understanding lectures, asking and answering questions, and expressing themselves clearly in class.

ENGL 14 College Skills: Shaping Sentences
(1 unit)(No prerequisite. One lecture hour weekly.)

This six-week course will provide extensive instruction and practice in composing interesting, alive, and correct sentences for college papers and other writing. Students will learn how to add color, variety, and specific detail to their sentences while applying the techniques of sentence and idea combining. In addition, students will explore word choice for appropriateness and punctuation for effect.

ENGL 15 College Skills: Exploring English
(1 unit)(No prerequisite. One lecture hour weekly.)

Each time this course will explore a different cultural theme (for example, famous cheaters in sports). Based on the readings, students will apply spelling rules, build their vocabulary, comprehend ideas, and write outlines, summaries, and responses.

ENGL 16 College Skills: Perfect Punctuation
(1 unit)(No prerequisite. One lecture hour weekly.)

This course will give students confidence in using punctuation correctly in their writing. They will master the rules relating to commas, semicolons, quotes, apostrophes, hyphens, dashes, colons and parentheses, when to put them in and when to leave them out.

ENGL 17 College Skills: Reading Textbooks
(1 unit)(No prerequisite. One lecture hour weekly.)

This course will help students become more skillful and efficient learners. The course takes an integrated approach to understanding texts will include active reading strategies, note-taking, memory techniques, and test-taking tips.
ENGL 18  College Skills: Taking Essay Tests  
(1 unit)(No prerequisite. One lecture hour weekly.)  
This short course will provide instruction and practice in taking essay tests. Students will learn the various types of questions along with appropriate responses for each type. The process of writing a short outline and draft which is edited and proofread quickly will be modeled and practiced.

ENGL 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

ENGL 62  Developmental Reading and Writing  
(5 units)(Corequisite: English 62L. Five lecture hours weekly.)  
This course introduces the related ideas required for academic reading and writing: main ideas, logical support, implied meanings, relationships, patterns of organization, and vocabulary building. Students will learn how to write complete sentences of various types, plan before writing, and construct well-organized paragraphs.

ENGL 62L  Developmental Reading and Writing Lab  
(1 unit)(No prerequisite. Corequisite: English 62. Three laboratory hours weekly.)  
This lab will reinforce and extend the reading and writing skills learned in English 62. May be taken four times for credit.

ENGL 70-79  Basic Skills Open Lab  
(1-10 units)(No prerequisite. Students are advised to meet with the instructor to determine appropriate courses to take.)  
A series of minicourses designed to develop basic English language skills. Offered on an individualized basis, each module may be entered and completed at any time during the semester. Each module requires approximately 48 classroom hours and may be taken four times for credit.

<table>
<thead>
<tr>
<th>Modules offered are:</th>
<th>Units</th>
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<tbody>
<tr>
<td>70. Phonics.</td>
<td>1</td>
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<tr>
<td>71. Spelling I.</td>
<td>1</td>
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<tr>
<td>72. Spelling II.</td>
<td>1</td>
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<tr>
<td>73. Vocabulary I.</td>
<td>1</td>
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<tr>
<td>74. Vocabulary II.</td>
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<tr>
<td>75. Reading Improvement.</td>
<td>1</td>
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<tr>
<td>76. Reading Comprehension</td>
<td>1</td>
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<tr>
<td>77. Independent Reading.</td>
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<tr>
<td>78. Special Interest Workshop.</td>
<td>1</td>
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<tr>
<td>79. Grammar Review.</td>
<td>1</td>
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ENGL 92  Reading and Writing Skills  
(5 units)(No prerequisite. Corequisite: English 92L. Five lecture hours weekly.)  
Students develop their abilities to analyze and respond to reading material in a variety of disciplines. At the same time, they learn to construct well-organized and developed paragraphs using correct grammar and sentence structure.

ENGL 92L  Reading and Writing Skills Lab  
(1 unit)(No prerequisite. Corequisite: English 92. Three laboratory hours weekly.)  
In this course, students will practice and extend the reading, grammar, and writing skills introduced in English 92. They receive personal help with their assignments from a professional staff. May be taken twice for credit.

ENGL 94  Reasoning and Logic  
(1 unit)(No prerequisite. Three laboratory hours weekly.)  
This course will significantly increase students' verbal and mathematical reasoning skills. It is an excellent preparation for courses that meet the California State University critical thinking requirement.

ENGL 95  Advanced Spelling  
(1 unit)(No prerequisite. Advisory: English 71 or English 72 or 75th percentile on pretest. Three laboratory hours weekly.)  
Designed primarily for students in the Court Reporting Program, this course provides students with the skills to master English spelling at an advanced level. Students build their visual memory, study phonetic and structural patterns, and study frequently misspelled and misused words.

ENGL 96  Advanced Vocabulary  
(1 unit)(No prerequisite. Advisory: English 73 or English 74 or 75th percentile on pretest. Three laboratory hours weekly.)  
Designed primarily for students in the Court Reporting Program, this course presents strategies for building an extensive vocabulary. Topics include the history and etymology of English, dictionary skills, using context clues, word parts, and other word analysis skills.

ENGL 97  Critical Reading  
(1 unit)(No prerequisite. Advisory: English 76 or 75th percentile on pretest. Three laboratory hours weekly.)  
Designed primarily for students in the Court Reporting Program, this course significantly increases students' reading comprehension and critical thinking abilities. Topics include vocabulary in context, structural analysis of difficult material, inference, and conclusion and judgment skills.
ENGL 98  Introduction to College Reading and Composition I
(3 units)(Prerequisite: English as a Second Language 89A or English 92, or English placement test. Three lecture hours and one laboratory hour weekly.)

Students practice reading, writing, and critical thinking to improve reading comprehension and to develop composing techniques for effective academic writing. This course is designed to prepare students for success in college level academic reading and writing. Focus is on writing fluency and familiarity with the conventions of standard written English. Assignments show the interconnection among readings, personal experience, observation, and class discussion. Requires one hour weekly of guided practice in the Writing Center. This course can be offered in a distance learning, online or hybrid format.

English 98 may be offered as three separate self-paced classes:

98A. Grammar and Usage. (1)
(One lecture and one-third laboratory hour weekly.)

98B. Sentence Structure and Punctuation. (1)
(One lecture and one-third laboratory hour weekly.)

98C. The Paragraph and Short Essay. (1)
(One lecture and one-third laboratory hour weekly.)

ENGL 98SL   Introduction to College Reading and Composition I – for Non-Native English Speakers
(3 units)(Prerequisite: English as a Second Language 89A or 83 or English 92 or English placement test. Three lecture hours and one laboratory hour weekly.)

This course is for non-native English speakers. Students will practice reading, writing and critical thinking to improve reading comprehension and develop their academic writing skills. The course is designed to prepare students for success in college level reading and writing. The focus is on writing fluency and familiarity with the conventions of standard written English. Assignments show the interconnection among readings, personal experience, observation, and class discussion. Requires one hour weekly of guided practice in the ESL Lab and/or Writing Center Lab.

ENGL 99   Intensive Grammar Review
(½ unit)(No prerequisite. One and one-half laboratory hours weekly.)

This is an intensive, self-paced course that reviews common problems in grammar, punctuation, and usage. It is not intended to be an exhaustive study of the subject, but rather a focused review of such typical mistakes as run-ons, fragments, agreement errors, faulty parallelism, and inappropriate punctuation. This course is designed for students in English 150, 151, and 155, but may be taken by anyone wanting to improve basic grammar skills. May be taken twice for credit.

COLLEGE LEVEL COURSES

ENGL 116   College Reading
(3 units)(No prerequisite. Three lecture hours weekly.)

A course designed to strengthen students’ ability to understand and respond to college-level readings in all disciplines. Emphasis is on critically evaluating purpose, support, conclusions, tone, and language. Vocabulary enhancement is included. (CSU)

ENGL 117   Speed Reading
(1 unit)(No prerequisite. One lecture hour weekly.)

In this individualized course students will learn efficient reading techniques that will help them double or triple their present reading rate with increased concentration, comprehension, and retention. Developing reading flexibility will be emphasized as students learn to vary their reading rate to suit their purpose. Skimming, scanning, and textbook reading will also be covered. Can also be offered in a distance learning format. (CSU)

ENGL 120   Introduction to College Reading and Composition II
(3 units)(Prerequisite: English 98 or 98SL or English Placement Test. Three lecture hours and one laboratory hour weekly.)

Students sharpen their skills in reading, writing, and critical thinking to improve reading comprehension and to develop composing techniques for effective academic writing. This course is designed to prepare students for success in college level academic reading and writing, emphasis being placed upon thinking clearly and logically and upon the construction of cogent arguments. Students also review such matters as standard usage, appropriate diction, punctuation, grammar, and ways to achieve variety in sentence structure within the context of the essay. Assignments show the interconnection among readings, personal experience, observation, and class discussion. Requires one hour weekly of guided practice in the Writing Center. This course can be offered in a distance learning, online, or hybrid format. (CSU)

AA/AS Area D

ENGL 120SL   Introduction to College Reading and Composition II – for Non-Native English Speakers
(3 units)(Prerequisite: English 98 or 98SL or English Placement Test. Three lecture hours and one laboratory hour weekly.)

This course is for non-native English speakers. Students sharpen their skills in reading, writing, and critical thinking to improve reading comprehension and to develop composing techniques for effective academic writing. This course is designed to prepare students for success in college level academic reading and writing, emphasis being placed upon the construction of cogent arguments. Students also review standard usage, appropriate diction, punctuation, grammar, and ways to achieve variety in sentence structure. Assignments show the interconnection among readings, personal experience, observation, and class discussion. Requires one hour weekly of guided practice in the ESL Lab and/or Writing Center Lab. (CSU/UC)
ENGL 130    Critical Thinking
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

This course is designed to sharpen student’s abilities to reason clearly. It is an introductory level course in the arts of rhetoric and logic. Students will learn to recognize and analyze common fallacies found in political statements, magazine commentary, news coverage, editorials, advertisements, and classical persuasive works. They will develop ways to organize their ideas and express them rationally, as well as ways to judge the quality of ideas and the purposes of various examples ranging from propaganda to persuasion to philosophy.

This course satisfies the CSU critical thinking requirement and offers students a chance to refine and continue developing their writing and reading skills before transferring. (CSU/UC)
AA/AS Area E, CSU Area A-3

ENGL 139    Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

ENGL 150    Reading and Composition (1A)
(3 units)(Prerequisite: English 120 or 120SL. Three lecture hours weekly.)

This course is intended to develop and refine students’ writing, reading, and critical thinking abilities. Students read and discuss various works and write expository and argumentative prose. In some classes a term paper may be required. May also be offered in a distance learning format. (CSU/UC)
AA/AS Area D, CSU Area A-2, IGETC Area 1A, CAN ENGL 2, CAN ENGL SEQ A = Engl 150 + 151

ENGL 151    Reading and Composition (1B)
(4 units)(Prerequisite: English 150. Four lecture hours weekly.)

This is a critical thinking/composition course that highlights literary texts as material from which students will derive samples of the critical exercises of their thinkers and evidence to use in critical constructions of their own. The term “literary evidence” is broadly defined here to include critical and argumentative essays, biographical or historical discussions, belletristic writing, and texture analysis, as well as poetry, drama, short stories, and novels. Students will develop skills in analysis, interpretation, informal logic, and expository and persuasive essay writing. They will learn to identify arguments, both in persuasive polemical discourse where arguments are presented and defended, and in subtler, more emotional texts where arguments are implied or masked. They will develop skills in recognizing and distinguishing fallacious reasoning from cogent reasoning in a variety of formats. Student essays will be expected to demonstrate a capacity for presenting complex ideas (problems with ambiguous or multiple solutions, for example) in a clear, coherent, convincing manner, with particular attention to matters of organization and style. A minimum of eight thousand words of writing will be required of each student. May also be offered in a distance learning format. (CSU/UC)
AA/AS Areas C or E, CSU Area A-3, IGETC Area 1B, CAN ENGL 4, CAN ENGL SEQ A = Engl 150 + 151

ENGL 155    Critical Thinking/Composition
(4 units)(Prerequisite: English 150. Four lecture hours weekly.)

This course is intended to develop rhetorical, critical, argumentative, and organizational skills in written composition and heightened perceptivity in analytical reading. Extensive analysis of texts will exercise the students’ faculties of critical and logical thinking. The investigation and analysis of writing models will focus on deductive, inductive and inferential reasoning, on assumptions and inferences embedded in argument, on the informal logical fallacies, on divergent world views, and on incoherences and biases in presentation. Student essay will be expected to demonstrate a capacity for presenting complex ideas in a clear, coherent, and convincing manner, with particular attention shown to matters of organization and style. A minimum of eight thousand words of writing will be required of each student. (CSU/UC)
AA/AS Area E, CSU Area A-3, IGETC Area 1B

ENGL 201    Advanced Composition
(3 units)(Prerequisites: English 150 and 151. Three lecture hours weekly.)

This course continues the training in critical thinking, analytical reading, and expository and argumentative writing begun in English 150 and 151. English 201 examines writing style and quality of ideas in both professional and student prose. Lectures, discussions, and research generate writing assignments in various modes and styles. (CSU/UC)

ENGL 202-203    Creative Writing I and II
(3-3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

This course is designed to familiarize qualified students with the discipline and craft of fiction, poetry, or drama. Writing samples are to be submitted within the first week of class. English 202 and English 203 may each be taken twice for credit. (CSU/UC)
CAN ENGL 6 = Engl 202

ENGL 204    Literary Visions: Introduction to Literary Studies
(3 units)(No prerequisite. Three hours weekly.)

Literary Visions is a one-semester course that consists of 26 half-hour television programs. The course parallels second-semester freshman English taught in many two- and four-year institutions. It is organized around the major genres of literature - fiction, poetry, and drama - with individual lessons on the elements of these genres: plot and structure, character, setting, styles, symbolism and myth, and theme. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B
ENGL 208 Short Fiction
(3 units)(No prerequisite. Three lecture hours weekly.)
In this course students examine short stories and novellas as literary forms. Readings include representative works by mainstream and multicultural writers as well as classical masters. Lectures provide historical and cultural background helpful in appreciating the literature; class discussions focus on interpretation and on the analysis of traditional literary devices such as plot, character, point of view, and theme. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 211 Survey of the English Novel
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)
This course will examine the novel as a literary form. Though not strictly a historical survey, it will explain the major developments in style, plot, and character from the novel's beginnings in the eighteenth century through the modern period. (CSU/UC) AA/AS Area C

ENGL 212 Introduction to Poetry
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)
This course examines poetry as a major literary genre. Students are introduced to the special uses of language and form found in poetry, and to the historical and cultural factors that have influenced poetry's stylistic developments. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 213 Survey of Drama
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)
This course investigates the nature of drama and the change in its form and subject matter from the Greeks to modern schools such as Artaud's Theater of Cruelty, the Theater of the Absurd, and mixed-media theatre. Students approach drama primarily as literature but will also pay close attention to drama as ritual and performance. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 214 The Popular Novel
(3 units)(No prerequisite. Three hours weekly.)
This videocassette course includes twentieth-century American literature that has been very successful in the market place. Some novels, like "The Great Gatsby" and "The Old Man and the Sea," are now considered classics; others are minor, but well-crafted works. Students study the novel as a literary genre and as a reflection of the dynamics and diversity of American life. In addition to reading the novels, students view corresponding videotapes from an outstanding selection of films and write analytic papers. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 215 Contemporary Novel
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)
This course provides an opportunity for considering various ways in which present-day social patterns and modes of individual perception are reflected in fiction appearing since 1945. Readings cover a range of styles, both conventional and experimental; usually five or six novels are included. Lectures and discussion focus on technical developments in narrative mode and characterization as these reflect the complexities of an age dominated by shifting values, uncertainty, and stress. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 216 The American Short Story
(3 units)(No prerequisite. Three hours weekly.)
This videocassette course is based on The American Short Story film series from PBS. It introduces students to the American literary tradition through reading of selected short stories and related criticism, plus the viewing of the PBS film production of each story. Students will analyze short works of fiction for thematic content and to express their understanding through competent writing. Authors include Hemingway, Twain, James, O'Connor, Fitzgerald, and others. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 217 Voices and Visions
(3 units)(No prerequisite. Advisory: Eligibility for English 120. Three hours weekly.)
Based on the acclaimed PBS series, this course offers a close look at the creative lives of 13 American poets. Beginning with precursors Whitman and Dickinson, the programs cover the entire range of twentieth century verse. Each writer's work is considered within a broad context involving literary tradition and cultural developments, with attention to geographical locale, family background, and individual preoccupations as well. While exploring the varieties of poetic inspiration, students gain experience in reading for comprehension and pleasure. Programs are televised weekly, or may be viewed by cassette. Writers include Frost, Eliot, Pound, Moore, Williams, Plath, and others. (CSU/UC) AA/AS Area C, CSU Area C-2

ENGL 218 Detective Fiction
(3 units)(No prerequisite. Three hours weekly.)
Detective fiction has undergone considerable change since its inception in the 1840's by Edgar Allan Poe. This videocassette course will trace the development of the genre from classic mysteries, to hard-boiled detective stories, to police procedurals. Students will read representative works by such authors as Poe, Doyle, Christie, Hammett, Chandler, and MacDonald; and they will view corresponding videotapes from an outstanding selection of film classics. Emphasis will be on the conventions of the form, the elements of fiction, the methods of critical thinking used in solving crimes, and the ethical problems raised in the works under discussion. (CSU/UC) AA/AS Area C, CSU Area C-2
ENGL 221A  Survey of American Literature I
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

In this course, the student will examine representative American writings, with emphasis shared between the canonized “major” authors and works from America’s “other” voices, including Native American, Chicano and Hispanic American, and African-American authors. Lectures, discussions and media presentations will relate the literature to the developing social and philosophical attitudes that characterize American civilization. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 221B  Survey of American Literature II
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

In this course, the student will examine representative American writings, with emphasis shared between the canonized “major” authors and works from America’s “other” voices, including Native American, Chicano and Hispanic American, and African-American authors. Lectures, discussions and media presentations will relate the literature to the developing social and philosophical attitudes that characterize American civilization. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 222-223  Survey of English Literature I and II
(3-3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

English 222-223 is a survey course in the language and literature of England and includes the reading of typical works from each of the important periods of literary development beginning with Beowulf and ending with twentieth-century literature. Lectures supply the background necessary for appreciation of the works that are read and suggest the wealth of literary material that is available to the intellectually curious reader or to the student of literature. The course is divided into two parts: English 222 being given in the first semester and English 223 in the second. Either part may be taken separately, but the student who plans to continue a study of literature is encouraged to take both in chronological order. English 223 can also be offered in a distance learning format. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B, CAN ENGL 8 = Engl 222, CAN ENGL 10 = Engl 223, CAN ENGL SEQ B = Engl 222 + 223

ENGL 224  Survey of World Literature I
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

This course surveys the imaginative literature of the world (excluding English and American literature) from antiquity through the Renaissance, e.g., from Homer and Sophocles to Cervantes and Rabelais. Lectures supply the background necessary for appreciation of the works that are read. Each is viewed both as an integral work of art and as a reflection of the values central to the narrative modes that have evolved through the centuries. Lyric and dramatic forms are also considered. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 225  Survey of World Literature II
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

This course surveys the imaginative literature of the world (excluding English and American literature) from early modern to post modern times, for example from Voltaire and Goethe to Sartre and Kafka. Lectures supply the background necessary for appreciation of the works that are read. Each is viewed both as an integral work of art and as a reflection of the values central to the narrative modes that have evolved through the centuries. Lyric and dramatic forms are also considered. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 226  Survey of Shakespeare
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

This survey will examine representative plays from each period in Shakespeare’s career. It will focus on the main genres — romance, tragedy, comedy, and history play — and locate the plays in their historical context. Lectures will define critical approaches that open discussion of the dramatic and literary qualities of Shakespeare’s work. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 227  The Literature of American Cultures
(3 units)(Prerequisite: Eligibility for English 120. Three lecture hours weekly.)

This class will explore the richness and diversity of American culture by studying the literature of several social and ethnic groups. It will focus on themes of identity and community in works by Afro-American, Native American, Jewish American, Latino, and Asian American writers. Close reading of representative texts will be placed in the context of twentieth century cultural history. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 228  Survey of American Literature
(3 units)(Prerequisite: Eligibility for English 120. Three lecture hours weekly.)

This course surveys the imaginative literature of the world (excluding English and American literature) from antiquity through the Renaissance, e.g., from Homer and Sophocles to Cervantes and Rabelais. Lectures supply the background necessary for appreciation of the works that are read. Each is viewed both as an integral work of art and as a reflection of the values central to the narrative modes that have evolved through the centuries. Lyric and dramatic forms are also considered. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B
ENGL 240  Classic Children's Literature
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

An inquiry into the basic nature of children's literature; what are its social, philosophical, spiritual, and aesthetic values. The course will consider techniques and modern critical theories, but the focus will be on practical criticism for the nonspecialist. Specific works studied will be representative of several genres, cultures, and periods of children's literature. (CSU/UC) AA/AS Area C, CSU Area C-2, IGETC Area 3B

ENGL 242  Global Writings
(3 units)(Prerequisite: English 120. Can be taken for credit as English 242 or Humanities 242. However, credit will be awarded for only one course. Three lecture hours weekly.)

The cultural diversity and complex histories of the nations composing the contemporary international world are revealed in a variety of forms of writings from the twentieth century. Discussion and analysis of representative texts focus on colonial exploitation, political domination, liberation, formations of racism, gender inequality, expressions of cultural power, ethnic conflict and division, immigration and migration, and processes of globalization. It is recommended for majors in International Relations. (CSU/UC) AA/AS Area C, CSU Area C2, IGETC Area 3B

ENGL 249  Directed Study
(1-3 units)(Limit to Enrollment: English 150.)

A tutorial allowing a student to explore, through individual research, some intellectual problem or some academic area that the student wants to investigate in-depth. The student will plan and execute a project under the direction of a faculty member willing to act as tutor and qualified to supervise within the academic area relevant to the student's project. Evaluation is made through conferences and written reports; hours and numbers of reports are determined by the instructor in consultation with the student. May be taken more than once for credit. (CSU/UC w/limit)

ENGLISH AS A SECOND LANGUAGE COURSES

The College of Marin offers an English as a Second Language placement testing service to provide prospective students with information with which to make informed decisions when enrolling in English as a Second Language courses. Students are provided with their test scores. Students registering for English as a Second Language courses, who need help in interpreting their individual placement test scores and/or in deciding whether to register for or remain in an English as a Second Language course, can seek assistance from a counselor or their instructor.

For information about the English as a Second Language Placement Test, students can call the Testing Office at (415) 485-9469 (located in the Student Services building, Room 18, Kentfield Campus).

ESL 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

ESL 40L  Low Intermediate English as a Second Language Skills Lab
(½, 1 unit)(No prerequisite. One and one-half laboratory hours weekly for one-half student unit, and three laboratory hours weekly for one student unit.)

English as a Second Language students will improve their English in this interactive computer-based multimedia course. This lab offers low intermediate students the opportunity to practice their listening, pronunciation, speaking, vocabulary, and grammar skills in a self-paced laboratory environment. American culture and English as a Second Language life skills will be included. May be taken four times for credit.

ESL 50  Review of Low Intermediate English as a Second Language
(3 units)(No prerequisite. Advisory: ESL Placement Test. Three lecture hours weekly.)

This review course is designed for English as a Second Language students at the low intermediate level. The course will review the major points covered in English as a Second Language 54, 55, and 56. May be taken four times for credit.

ESL 53  Intermediate English as a Second Language: Writing and Grammar
(4 units)(No prerequisite. Advisory: ESL Placement Test. Four lecture hours and one laboratory hour weekly.)

This course introduces the conventions of standard written English to intermediate nonnative English speakers and reviews basic grammar structures. Emphasis is placed on sentence structure and the correct use of tenses.

ESL 54  Intermediate English as a Second Language: Grammar
(3 units)(No prerequisite. Advisory: ESL Placement Test. Three lecture hours and one laboratory hour weekly.)

This course will review basic grammar structures for non-native speakers of English. Emphasis will be placed on the verb tenses.

ESL 56  Intermediate English as a Second Language: Words I (Vocabulary, Spelling, Reading, and Discussion)
(4 units)(No prerequisite. Advisory: ESL Placement Test. Four lecture hours weekly.)

This course is designed to improve the reading comprehension and vocabulary usage of non-native speakers of English. This course will include reading skills, study skills, short stories and the reading of short novels.
ESL 58A Pronunciation for Non-native Speaker I
(2 units)(No prerequisite. Four lecture hours weekly for eight weeks.)
This course will provide English as a Second Language students the opportunity to improve their production of standard American English. Students will practice the sound system, and the rhythm of the language to become more intelligible and to gain understanding of spoken English.

ESL 58B Pronunciation for Non-native Speaker II
(2 units)(No prerequisite. Four lecture hours weekly for eight weeks.)
This course will provide English as a Second Language students the opportunity to improve their production of standard American English. Students will practice stress and intonation patterns, linking, assimilation, and prominence to become more intelligible and to gain understanding of spoken English.

ESL 60 Intermediate English as a Second Language: Listening and Speaking
(3 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 47. Three lecture hours weekly.)
This is an intermediate course in listening and speaking communication skills recommended for non-native speakers taking English as a Second Language 50-level or 60-level courses. Students will be introduced to formal and informal speaking and listening skills to provide a bridge to educational and career opportunities.

ESL 63 High Intermediate English as a Second Language: Writing and Grammar
(4 units)(No prerequisite. Advisory: ESL Placement Test; completion of English as a Second Language 53 or 54. Four lecture hours and one laboratory hour weekly.)
This course is suitable for the high intermediate student with a good foundation in English grammar and writing. There is an emphasis on grammatical accuracy and on writing a logical sequence of sentences in organized paragraphs. Completion of all 50-level ESL courses is recommended.

ESL 64 High Intermediate English as a Second Language: Grammar
(3 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 44 or 54. Three lecture hours and one laboratory hour weekly.)
This high intermediate course is designed to improve language and grammar skills for non-native English speakers. Recommended completion of all 50-level English as a Second Language classes.

ESL 66 High Intermediate English as a Second Language: Words II (Vocabulary, Spelling, Reading, and Discussion)
(4 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 46 or 56. Four lecture hours weekly.)
This course will provide high intermediate English as a Second Language students with practice reading stories and short novels, newspapers and other non-fiction materials. Students will be introduced to academic reading and study skills. Students will learn to use various resources available at the COM library. Completion of all 50-level English as a Second Language classes is recommended.

ESL 68 American Topics
(2 units)(No prerequisite. Two lecture hours weekly.)
This course will help students understand important American topics, past and present, through lecture, reading, and discussion. Examples of topics include the education system, the American dream, drugs and drug treatment. May be taken four times for credit.

ESL 70 Review of Intermediate English as a Second Language
(3 units)(No prerequisite. Advisory: ESL Placement Test. Three lecture hours weekly.)
This review course is designed for English as a Second Language students at the intermediate level. The course will review the major points covered in English as a Second Language 64, 65, and 66. May be taken four times for credit.

ESL 72 Practical Writing and Reading Skills for Intermediate to Advanced English as a Second Language Students
(4 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 60 level courses. Four lecture hours weekly.)
This course is designed to help English as a Second Language students improve their reading and writing skills in their daily and working lives. Coursework will include information gathering, exposure to business language and idioms, and consumer information.

ESL 73 Low Advanced English as a Second Language: Writing and Grammar
(4 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 63 or 64. Four lecture hours and one laboratory hour weekly.)
In this course, students improve their writing skills including writing effective paragraphs and short compositions. Intermediate and advanced grammar structures and punctuation are reviewed. Completion of all 60-level ESL courses is recommended.
ESL 74 Low Advanced English as a Second Language: Grammar
(3 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 64. Three lecture hours and one laboratory hour weekly.)

This course is designed for low advanced English as a Second Language students who need to refine their understanding of grammar. Completion of all 60-level English as a Second Language courses is recommended.

ESL 76 Low Advanced English as a Second Language: Words III (Vocabulary, Spelling, Reading, and Discussion)
(4 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 66. Four lecture hours weekly.)

This course is designed to improve the reading comprehension and academic vocabulary of low advanced nonnative speakers of English. This course will include reading skills, study skills, novel reading, and library research projects. Completion of all 60-level English as a Second Language courses is recommended.

ESL 78 English as a Second Language for CIS 101
(1 unit)(No prerequisite. One lecture hour weekly.)

This class is an ESL course emphasizing development of English speaking, listening, reading and writing skills needed for student studying Computer Information Systems.

ESL 80 Advanced English as a Second Language: Listening and Speaking for Social, Academic and Workplace Situations
(3 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 60 or 67. Three lecture hours weekly.)

This course in listening and speaking skills is recommended for low-advanced to advanced English as a Second Language students. It will help students improve their listening and speaking skills necessary to participate in college, workplace and everyday life situations. Students will practice listening and note taking skills, will conduct interviews, give presentations and lead discussion sessions.

ESL 83 Advanced English as a Second Language: Writing and Grammar
(4 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 73, or 74 and 75. Four lecture hours and one laboratory hour weekly.)

This course is suitable for the advanced student with a strong foundation in English grammar and writing. This course is designed to review and build upon grammar and writing skills, enabling the student to function in academic courses and write short papers with a controlling idea. Completion of all 70-level ESL courses is recommended.

ESL 84AV Advanced English as a Second Language: Grammar
(3 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 74 or 84. Three lecture hours and one laboratory hour weekly.)

This course is designed for advanced English as a Second Language students who need to refine their understanding of grammar for academic writing. Completion of all 70-level English as a Second Language classes is recommended.

ESL 86 Advanced English as a Second Language: (Vocabulary and Reading Skills)
(4 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 76. Four lecture hours weekly.)

This course is designed to help advanced English as a Second Language students improve reading comprehension and to develop academic vocabulary. It will also improve study skills for more effective reading of textbooks and other material, including short fiction.

ESL 87A Advanced English as a Second Language: Academic Listening and Speaking
(3 units)(No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 60 or 67. Three lecture hours weekly.)

This course in listening and speaking is recommended for advanced English learners. It will help students improve their listening and speaking with skills necessary for academic success. Completion of all 70-level English as a Second Language classes is recommended.

ESL 88A Introduction to Editing for English as a Second Language Students
(1 unit)(No prerequisite. Advisory: Concurrent enrollment in English as a Second Language 89A or other composition courses. One and one-third lecture hours weekly for twelve weeks.)

This course is designed for English as a Second Language students enrolled in advanced writing courses. Students will learn to identify and correct in syntax, logic and structure their own writings at the final draft stage. Areas of concentration include common errors in tenses, sentence structure and punctuation.

ESL 88B Advanced Editing for English as a Second Language Students
(1 unit)(No prerequisite. One and one-third lecture hours weekly for twelve weeks.)

This course is designed for English as a Second Language students who are enrolled in advanced writing courses. Students will learn to identify and connect in syntax, logic and structure their own writings at the final draft stage. Areas of concentration include common errors in shifting tenses, punctuation complex sentences and use of the passive voice.
ESL 89A  Advanced Reading and Writing Skills for English as a Second Language Students
(5 units) (No prerequisite. Advisory: ESL Placement Test or completion of English as a Second Language 75 and 76 or 85 and 86. Five lecture hours weekly.)
This course is designed to develop the efficient reading and writing skills required of college students. Students will be reading a variety of materials and responding to them. Students will write summaries, critiques, paragraphs, and other short papers with a controlling idea. Areas of concentration include vocabulary development, grammar, literal and inferential critical thinking strategies, comprehension skills, and content area strategies. Recommended completion of all 70-level ESL courses.

Note: The following cross-listed English courses are intended for English as a Second Language students.

English 98SL  Introduction to College Reading and Composition I – for Non-Native English Speakers
(3 units) (Prerequisite: English as a Second Language 89A or 83 or English 92 or English Placement Test. Three lecture hours and one laboratory hour weekly.)
This course is for non-native English speakers. Students will practice reading, writing and critical thinking to improve reading comprehension and develop their academic writing skills. The course is designed to prepare students for success in college-level reading and writing. The focus is on writing fluency and familiarity with the conventions of standard written English. Assignments show the interconnection among readings, personal experience, observation, and class discussion. Requires one hour weekly of guided practice in the ESL Lab and/or Writing Center Lab.

English 120SL  Introduction to College Reading and Composition II – for Non-Native English Speakers
(3 units) (Prerequisite: English 98 or English 98SL or English placement test. Three lecture hours and one laboratory hour weekly.)
This course is for non-native English speakers. Students sharpen their skills in reading, writing and critical thinking to improve reading comprehension and to develop composing techniques for effective academic writing. This course is designed to prepare students for success in college level academic reading and writing, emphasis being placed upon the construction of cogent arguments. Students also review standard usage, appropriate diction, punctuation, grammar, and ways to achieve variety in sentence structure. Assignments show the interconnection among readings, personal experience, observation, and class discussion. Requires one hour weekly of guided practice in the ESL Lab and/or Writing Center Lab. (CSU/UC)

ENVIRONMENTAL LANDSCAPING COURSES

ELND 39  Selected Topics (Nondegree Applicable)
(1½-6 units) (Please see Selected Topics category.)

ELND 110A  Introduction to Environmental Landscaping
(1½ units) (No prerequisite. Three lecture hours weekly for eight weeks.)
This foundation class, essential for any one interested in plants either as a career or a hobby, introduces students to key concepts necessary for gardening or landscaping following environmentally sound techniques. It covers information about career paths, plant systems, basic plant structure, physiology and identification, principles of soil structure and function. This short class is the first half of an introductory course in environmental landscaping. (CSU)

ELND 110B  Introduction to Environmental Landscaping
(1½ units) (No prerequisite. Three lecture hours weekly for eight weeks.)
This short class is the second half of an introductory course in environmental landscaping and is essential for any one interested in plants either as a career or a hobby. This class introduces students to concepts necessary for gardening or landscaping following environmentally sound techniques. It covers information about: establishment of gardens and landscapes, irrigation, integrated management of insects, mites, plant diseases and weeds, pruning and design. (CSU)

ELND 120A  Landscape Ecology
(1½ units) (No prerequisite. Three lecture hours weekly for eight weeks.)
This class is essential for anyone interested in ecological gardening and landscaping. The class covers evolution of ecological concepts, structure and function of plant ecosystems and factors that regulate plant communities. It covers the effects of climate on plant communities and their relevance for gardening and landscaping. This short class is one first half of a two-class sequence on plant ecology. May be taken twice for credit. (CSU)

ELND 120B  Landscape Ecology
(1½ units) (No prerequisite. Three lecture hours weekly for eight weeks.)
This class is essential for anyone interested in ecological gardening and landscaping. The class covers ecological interactions that regulate plant communities such as biogeochemical cycles, predation, parasitism, disease, competitions, and their relevance for gardening and landscaping and ecological studies. This short class is the second half of a two-class sequence on plant ecology. May be taken twice for credit. (CSU)
ELND 139  Selected Topics  
(1½-6 units)(Please see Selected Topics category.) (CSU w/limit)

ELND 154A  Plant Materials I  
(1½ units)(No prerequisite. Two and one-half lecture and one and one-half laboratory hours weekly for eight weeks.)

Identification, habits of growth, cultural and environmental requirements, and use of woody and herbaceous plants grown in the landscape. Plants will be studied during that time of year when they are of significant interest in the landscape. (Covers plants that are attractive in the winter and spring.) This is a short course of eight weeks and the first part of the spring plant identification course. (CSU/UC)

ELND 154B  Plant Materials I  
(1½ units)(No prerequisite. Two and one-half lecture and one and one-half laboratory hours weekly for eight weeks.)

Identification, habits of growth, cultural and environmental requirements, and the use of woody and herbaceous plants grown in the landscape. Plants will be studied during that time of the year when they are of significant interest in the landscape. (Covers plants that are attractive in the winter and spring.) This is a short course of eight weeks and the second part of the spring plant identification course. (CSU/UC)

ELND 157  Principles of Landscape Design  
(3 units)(Prerequisite: Architecture 120. Two lecture and three laboratory hours weekly.)

An introduction to the general concepts of landscape design, including the history and fundamentals of the development of a landscape design and basic site analysis. Also studied will be the principles of implementation in relationship to landscape construction and maintenance. (CSU/UC)

ELND 158  Landscape Materials and Construction  
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

This course is a survey of materials and techniques used in the construction of landscapes. Materials included will be wood, masonry, irrigation, drainage, soil amendments and outdoor lighting. Also covered will be the reading and interpretation of plans and specifications as well as elementary surveying and grade interpretation. This course is designed to aid in the successful completion of the California Landscape Contractors examination. (CSU)

ELND 201  Special Topics in Landscape Design  
(3 units)(No prerequisite. Advisory: A drafting course or an introductory course in landscape design. Two lecture and three laboratory hours weekly.)

This class explores current and specialized landscape design aspects. Topics include current design trends in light of ecological, social, economic and technology circumstances. Subjects covered may include new materials (plants, lights, structures, embellishments) and techniques (hardware, software) and connections between landscape design, ecological sustainability and health. May be taken three times for credit. (CSU)

ELND 202  Specialized Landscape Construction Projects.  
(3 units) (No prerequisite. Two lecture and three laboratory hours weekly.)

This class explores special aspects of landscape materials and construction. Topics include tools, techniques, materials and processes necessary to build a wide variety of structures in landscapes. The class includes projects such as working with various types of wood, stone, brick, tile and concrete. Students will participate in class projects to build diverse structures utilized in gardens and landscapes. May be taken three times for credit. (CSU)

ELND 210A  Integrated Pest Management  
(1 unit)(No prerequisite. Three and one-half lecture hours weekly for five weeks.)

This class addresses principles to establish and implement Integrated Pest Management (IPM) strategies and tactics in gardens and landscapes. It covers approaches for ecological sound management of organisms associated with plants in landscapes. Information presented includes ecological basis for IPM, process to establish an IPM plan and IPM strategies and practices. This short class is the first third of a three-class sequence of IPM classes. (CSU)

ELND 210B  Insect Identification and Management  
(1 unit)(No prerequisite. Three and one-half lecture hours weekly for five weeks.)

This class addresses identification of common arthropods found in gardens and landscapes. It also addresses ecologically sound strategies and tactics to manage arthropods on plants following Integrated Pest Management (IPM) principles. The class covers biological, microbiological, chemical and cultural arthropod management methods. This short class is the second third of a three-class sequence in IPM. (CSU)
ELND 210C Integrated Pest Management of Plant Diseases and Weeds
(1 unit)(No prerequisite. Three and one-half lecture hours weekly for five weeks.)

This class addresses strategies for ecologically sound management of plant diseases and weeds in gardens and landscapes. It also addresses approaches to identify common plant pathogens and the selection and use of management options. The class covers biology and ecology of plant pathogens and weeds, and nature and function of chemical, biological and cultural management methods. This class is the last third of a three-class sequence in IPM. (CSU)

ELND 249 Directed Study
(1-3 units)(Limit to Enrollment: Landscape Management 110.)

Individual study in a subject of interest in landscape management that goes beyond regular course offerings. The student plans and executes an individual project under the direction of a member of the department. Evaluation is through a detailed written report or examination of the study undertaken. May be taken more than once for credit. (CSU w/limit)

ELND 251 Turfgrass Management
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

A course designed to bring about an understanding of the major turfgrasses grown in Northern California and their management. A study of turfgrass maintenance practices such as mowing, fertilization, irrigation, and control of weeds, insects, and diseases. (CSU)

ELND 253 Landscape Irrigation Systems
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

This class covers topics essential to provide water, in an ecologically sensitive manner, to plants in gardens and landscapes. Concepts covered include: soil/water/plant/weather relationships, basic hydraulics, site information, irrigation requirements, design and installation of diverse types of irrigation systems. (CSU)

ELND 254A Plant Materials II
(1½ units)(No prerequisite. Two and one-half lecture and one and one-half laboratory hours weekly for eight weeks.)

Identification, habits of growth, culture, environmental requirements, and use of woody and herbaceous plants grown in the landscape. Plants will be studied that exhibit late summer features such as flowers, fruit, foliage coloration and deciduous appearance. This is a short course of eight weeks to highlight late summer interest in the garden. (CSU/UC)

ELND 254B Plant Materials II
(1½ units)(No prerequisite. Two and one-half lecture and one and one-half laboratory hours weekly for eight weeks.)

Identification, habits of growth, culture, environmental requirements, and use of woody and herbaceous plants grown in the landscape. Plants will be studied that exhibit autumn features such as flowers, fruit, foliage coloration and deciduous appearance. This is a short course of eight weeks to highlight autumn interest in the garden. (CSU/UC)

ELND 260 Landscape Estimating and Management
(3 units)(No prerequisite. Three lecture hours weekly.)

A study of business practices related to the construction of ornamental landscapes. Includes publications for new jobs, site evaluation, landscape plans (design), and specifications. Office and business practices for the landscape contracting industry. Bid document breakdowns, price comparisons, capital expenditures, preparation of bid documents, subcontracting, certificates of insurance, lien notices, and as-built drawings. (CSU)

ELND 262A Environmental Maintenance Practices
(1½ units)(No prerequisite. Two and one-half lecture and one and one-half laboratory hours weekly for eight weeks.)

A course that stresses an ecological environmentally sensitive approach to managing a sustainable landscape. Topics that will be discussed are pruning, irrigation, integrated pest management, fertilization, weed control, planting, propagation, tools and equipment. Landscape maintenance will include scheduling and budgeting. This is a short course of eight weeks and the first part of an environmental maintenance course. (CSU)

ELND 262B Environmental Maintenance Practices
(1½ units)(No prerequisite. Two and one-half lecture and one and one-half laboratory hours weekly for eight weeks.)

A course that stresses an ecological environmentally sensitive approach to managing a sustainable landscape. An understanding of fire hazard reduction, monetary value of plants, and tree hazards evaluation will be discussed. Integrated pest management of insects, weeds, and diseases in the landscape will be covered. Establishment of a good water management program guided by plant water needs, using good irrigation practices, will be shown. This is a short course of eight weeks and the second part of an environmental maintenance course. (CSU)
ETST 112  History of Black Americans (B)
(3 units)(No prerequisite. Ethnic Studies 111 is not a prerequisite for Ethnic Studies 112. Three lecture hours weekly.)
This is a historical survey of the African American experience from the American revolutionary era to contemporary African American issues. The course will focus on the history and social and political aspirations and movement among African Americans and their evolution through the civil rights movement to contemporary developments. The key goal of this course is to understand the African American experience in the context of American history. (CSU/UC)
AA/AS Areas B or F & G, CSU Area D-3, D-6, IGETC Area 4, CSU US History, Constitution, and American Ideals

ETST 111  History of Black Americans (A)
(3 units)(No prerequisite. Ethnic Studies 111 is not a prerequisite for Ethnic Studies 112. Three lecture hours weekly.)
This course is a historical survey of the African/African American experience in the context of American history. (CSU/UC)
understand the African American experience in the context of American history. (CSU/UC)
AA/AS Areas B or F & G, CSU Area D-3, D-6, IGETC Area 4, CSU US History, Constitution, and American Ideals

ELND 264  Landscape Nursery Practices
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)
A course that covers the practices used in the operation of a commercial nursery including nursery structures and layout, seeding, transplanting, balling, potting, canning, fertilizing, pest control, and plant diseases. Propagation of plants, planting soil mixtures, their preparation and use. Legal aspects of operating a commercial retail nursery. Advertising and merchandising of nursery products. (CSU)

ETST 125  Research Methods and Term Papers in the Social Sciences
(3 units)(No prerequisite. Advisory: Competence in written language skills comparable to eligibility for English 150. Students may receive credit for this course as Economics 125, Ethnic Studies 125, History 125, Political Science 125, or Social Science 125. However, credit will be awarded for only one discipline. Three lecture hours weekly.)
This course focuses on the elements of critical thinking and methods of research in the social sciences and develops skills required to organize such thought and research into effective, college-level presentations. Various social science faculty members will offer their expertise to students on an individual basis as they develop their presentations. Students are encouraged to select areas of research from other courses taken during the semester or from areas of special interest including politics, history, economics, education, women's studies, ethnic studies, current issues, and issues of community concern.
Ethnic Studies 125 is designed for students who want the research and term paper skills, but are not working for satisfaction of the Critical Thinking Requirement (A, III) for the Bachelor of Arts degree at California State University. Social Science 125 does meet that requirement. (CSU/UC)

ETST 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

ETST 108  Arts of the Americas
(3 units)(No prerequisite. Can be taken for credit as Ethnic Studies 108, Art 108, or Humanities 108. However, credit will be awarded for only one course. Three lecture hours weekly.)
A survey of the arts and architecture of the Americas — North, Central, Caribbean and South Americas — focusing on a selection of works from the major pre-Columbian, Spanish Colonial, and modern cultures. Art of the United States will focus on works from the culturally diverse peoples of the Bay Area. (CSU/UC)
AA/AS Area C & G, CSU Area C-1, IGETC Area 3A

ETST 110  Introduction to Ethnic Studies
(3 units)(No prerequisite. Three lecture hours weekly.)
A survey course which is designed to promote academic and professional knowledge of, and sensitivity to, historical and cultural developments important to ethnic groups in the United States. This is a foundation course in which students will develop an understanding of the social, economic, political, and cultural experiences of ethnic minorities in America. (CSU/UC)
AA/AS Area B & G, CSU Area D-3, IGETC Area 4

ETST 121  History of La Raza in the United States
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is a historical survey of the La Raza experience in North America from pre-Columbian experiences through the contemporary era. The course will focus on the development of a distinctive La Raza culture and its political, social, and economic manifestations in the United States. The key goal is to provide students with an understanding of the diversity of the La Raza experience in the context of American history. (CSU/UC)
AA/AS Areas B or F & G, CSU Area D-3, D-6, IGETC Area 4, CSU US History, Constitution, and American Ideals
ETST 128  Art Field Trips  
(1-4 units)(No prerequisite. Can be taken for credit as Ethnic Studies 128 or Art 128 or Humanities 128. However, credit will be awarded for only one discipline. Three-quarter lecture and three-quarter laboratory hours weekly for one unit, one and one-half lecture and one and one-half laboratory hours weekly for two units, two and one-quarter lecture and two and one-quarter laboratory hours weekly for three units, and three lecture and three laboratory hours weekly for four units.)

A complement to art history and studio art courses, this course allows students to experience the art and architecture of sites like New York, Mexico City, and Rome first-hand. Pretrip lectures will set up background for an intensive field trip(s) that may include visits to museums, galleries, libraries, artists' studios, and to architectural and archeological sites where lecture, discussion, and personal exploration will take place. May be used to bring students to a major media-specific conference. Each discipline may be taken four times for credit. (CSU)

ETST 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

ETST 151  Native American History  
(3 units)(No prerequisite. Three lecture hours weekly.)

An introductory historical survey to Native American cultures of North America from the pre-colonial period to the present. The course will emphasize the diversity of North American Native cultures and their social and political evolution. A key theme of the course will be the issues of land, political and social interactions with European cultures, and late twentieth century political and economic developments. (CSU/UC)

AA/AS Areas B or F & G, CSU Area D-3, D-6, IGETC Area 4, CSU US History, Constitution, and American Ideals

ETST 154  Native American Literature  
(3 units) (No prerequisite. Three lecture hours weekly.)

This course is a survey of Native American literature and culture. The course will focus on the work of selected Native American authors, both poets and fiction writers, with an emphasis on Native American cultures and the social issues facing Native Americans. The course will also develop student's creative writing skills and their cultural sensitivity. The goal of the class is to understand the Native American experience in the context of Native American literature and the history of this American hemisphere.

CSU Area C-2

ETST 242  Contemporary African Affairs  
(3 units)(No prerequisite. Three lecture hours weekly.)

This course will research and analyze the social, political, and economic developments of contemporary Africa. The course will provide a historical background to colonialism and contemporary Africa, utilizing literature, film, and primary source material. Key themes of the course will include nationalism, globalism, contemporary conflicts, and African development. (CSU/UC)

ETST 249  Directed Study  
(1-3 units)(No prerequisite.)

(CSU/UC)
COMM 109B  History of Film: 1950 to the Present  
(4 units)(No prerequisite. Can be taken for credit as Communications 109B or Humanities 109B. However, credit will be awarded for only one course. Four lecture hours weekly.)  
This course offers a chronological survey of narrative film as art, business, technology, and politics from 1950 to the present. Periods and movements covered will include the American Studio Period, 1950s Film Noir and subversive movements, Italian Neorealism, French Nouvelle Vague, National Cinemas of Sweden, England, Czech Golden Age, Poland, Hungary, Japan, India, China, Iran, The New German Film, Third World Cinemas, Australia, the Hollywood Renaissance of the 1960s and 1970s, Dogma 95, and independent film movements. (CSU/UC)  
AA/AS Area C, CSU Area C-1, IGETC Area 3A

COMM 111  Television Production  
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)  
This course is designed to provide students with a comprehensive background in both the technical and production aspects of television programming, operation of typical television equipment, and use of full-color television studio. (CSU)

COMM 112  Broadcast Studio Operations I  
(4 units)(Prerequisite: Communications 111. Three lecture and three laboratory hours weekly.)  
This course will allow students to apply their production skills to projects that can be locally cablecast. Remote shooting and electronic editing are introduced. (CSU)

COMM 113  Broadcast Studio Operations II  
(4 units)(Prerequisite: Communications 112. Three lecture and three laboratory hours weekly.)  
Advanced production students will be required to produce short programs combining studio and fieldwork. Community and educational programming covering local issues and events is stressed. (CSU)

COMM 139  Selected Topics  
(1/2-6 units)(Please see Selected Topics category.) (CSU w/limit)

COMM 140  Film Direction  
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)  
Functions of the director in relation to cast and crew; process of casting, script breakdown, blocking, dramatic and cinematic interpretation of scripted material, and practice in crew functions following the professional model. We will explore how the director and crew operate in a variety of genres, i.e., theatrical, documentary, commercial, training, etc. (CSU)

COMM 145  Developing Ideas for Film, Multimedia and Video Projects  
(2 units)(No prerequisite. Two lecture hours weekly.)  
This class is appropriate for anyone who needs to learn how to develop a concept, idea or story for short film, multimedia and video projects. The focus of the course is to give students the skills and practical experience necessary to create a script for a short documentary, multimedia, narrative, music, experimental, interview, personal and promotional film and video projects. (CSU)

COMM 146  Film/Video Production  
(1 unit)(No prerequisite. Other limitations: Basic English Skills. One lecture hour weekly.)  
This hands-on class is appropriate for anyone who needs to learn how to complete preproduction tasks for film and video. The focus of the course is to give students the skills and practical experience necessary to carry out preproduction duties for documentary, narrative, music, experimental, interview, personal and promotional film and video projects. (CSU)

COMM 150  Introduction to Filmmaking  
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)  
This hands-on class is appropriate for anyone who is considering a career in cinema or who wants to take a filmmaking class for fun and personal enrichment. The focus of the course is to give students a basic set of filmmaking and visual communication skills. Using digital video, 16mm film and computers, students, working in groups and individually, learn and practice the fundamentals of filmmaking without having to incur the cost of producing a complete film. (CSU/UC)

COMM 151  Video Production: Shooting on Location  
(3 units) (No prerequisite  Two and one-half lecture and one and one-half laboratory hours weekly.)  
This hands-on class is appropriate for anyone who needs to gain basic video field production skills or who wants to take a video production class for fun and personal enrichment. The focus of the course is to give students a basic set of video production and visual communication skills. Using small and lightweight digital video equipment, students, working in groups and individually, learn how to shoot video on location for documentary, narrative, music, experimental, interview, personal and promotional projects. (CSU)
COMM 154  16mm Filmmaking Production II
(4 units)(Prerequisite: Communications 150. Three lecture and three laboratory hours weekly.)
Advanced production project or completion of two-semester production. Option of advanced crew work, minimum of 50 hours, with primary responsibility for one aspect of project; crew work journal required. (CSU/UC)

COMM 155  16mm Filmmaking: Sync Sound Production
(4 units)(Prerequisite: Communications 150. Three lecture and three laboratory hours weekly.)
To provide advanced film production students with experience in sync sound preproduction planning, production, and post production. Students may elect to produce a short exercise, a portion of a longer film, or a multiple-semester full production. May be taken four times for credit. (CSU)

COMM 161  Film and Television Writing
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is designed to teach students the basics of dramatic writing so that they can learn the functions of each act of a drama in drawing sympathy for characters, creating interesting conflict, and unifying the message.

COMM 162  Advanced Film and Television Writing
(3 units)(Prerequisite: Communications 161. Three lecture hours weekly.)
This course assumes students have some experience writing in screenplay or teleplay format and are familiar with basic structure, dramatic conflict, and character development. Class is a workshop/seminar format; students present original works-in-progress for rewrite suggestions. Lessons in issues of subtext, dialogue, plot motivation, development of characters’ psychological needs, and plot tightening for pacing will be given. May be taken four times for credit. (CSU)

COMM 163  Screenplay Projects
(3 units)(Prerequisite: Communications 162. Three lecture hours weekly.)
This course assumes the student has already taken five semesters of Writing for TV and Film and is working on either a continuing screenplay or teleplay project or is starting a new project. Class is a workshop-seminar format; students present original works-in-progress for rewrite suggestions. May be taken four times for credit. (CSU)

COMM 166  Writing Short Film and Television Productions
(3 units)(No prerequisite. Three lecture hours weekly.)
Exercises to develop fluency in the language of the motion picture. Creation of shooting scripts and/or storyboarding for short documentary, animated, or narrative films and videos. Viewing and analysis of representative works to examine structure and style. May be used to develop projects for production courses. (CSU)

COMM 170  Workshop in Cinematography
(3 units)(Prerequisite: Communications 150. Two lecture and three laboratory hours weekly.)
This is an intermediate level class that teaches intermediate techniques of cinematography and lighting through classroom instruction, exercises, and studio and location shooting. In addition, students will learn how to maintain camera and lighting equipment and develop advanced skills in visual communication and the art and craft of cinematography. May be taken twice for credit. (CSU)

COMM 175  Avid Nonlinear Editing Workshop
(3 units)(Prerequisite: Communications 150. Two lecture and three laboratory hours weekly.)
This course provides basic instruction in the theory and practical application of nonlinear editing for film and video using the Avid editing workstation. The emphasis is on developing students’ skills through hands-on work and practice on the Avid system. May be taken three times for credit. (CSU)

COMM 176  Advanced Avid Nonlinear Editing
(1 unit)(Prerequisite: Communications 175. One lecture hour weekly.)
Using lecture, demonstration, and hands-on practice this workshop explores advanced Avid nonlinear editing techniques. It introduces horizontal and vertical effects, nesting, keying, key frames, and media and project management. May be taken twice for credit. (CSU)

COMM 177  ProTools Nonlinear Audio Editing
(3 units)(No prerequisite. Advisory: Basic computer skills. Two lecture and three laboratory hours weekly.)
Using lecture, demonstration, and hands-on practice, this workshop explores basic audio nonlinear editing techniques. It introduces digital audio workstations, digital multitrack recording, and midi and digital signal processing. May be taken twice for credit. (CSU)

COMM 180  Introduction to Film Animation
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
Explorations in varied types of animation including cel, cutout, clay, puppet, and pixilation. Fundamentals of the design and timing of movement. Viewing and analysis of animated films related to the production exercises. (CSU)
COMM 181  Film and Video Audio Recording Workshop  
(1 unit)(No prerequisite. One lecture hour weekly.)  
This workshop helps students develop basic skills in location sound recording for film and video. Topics include basic use of microphones, introduction to analog and digital sound recording, and techniques for recording good quality sound on location. May be taken twice for credit. (CSU)

COMM 182  Sync-Sound Production Workshop  
(1 unit)(Prerequisite: Communications 150. One lecture hour weekly.)  
This workshop is designed to teach students the basics of sync-sound preproduction planning and production and prep for editing a sync-sound film. Using film, cameras, and computers students working in small groups shoot and sync a short dialogue scene. May be taken twice for credit. (CSU)

COMM 183  Microphone Use and Technique for Film and Video  
(2 units)(No prerequisite. Other limitations: Basic English Skills. Two lecture hours weekly.)  
This class is appropriate for anyone who needs to learn how microphones work, how to select the correct microphone for a project, how and where to set up the microphone to capture the best sound and ways to change a location or studio into a sound-friendly environment. The focus of the course is to give students the knowledge and skills to design and create effective sound for documentary, multimedia, narrative, experimental, and promotional film and video projects. (CSU)

COMM 212  Broadcast Studio Operations III  
(4 units)(Prerequisite: Communications 113. Three lecture and three laboratory hours weekly.)  
In this course students will be expected to produce a major project for public access television, a community group, or an academic department. May be taken four times for credit. (CSU)

COMM 240  Advanced Production Projects  
(3 units)(Prerequisites: Communications 140, 150, 166, and 170. Three lecture hours weekly.)  
This class is an advanced level seminar that allows students to work on their second-year film projects. The seminar includes a critical and analytical evaluation of students’ films, working as crew on other advanced level students’ projects, and completing postproduction work. May be taken four times for credit. (CSU)

COMM 249  Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

COMM 253-254  16mm Filmmaking: Production III and IV  
(4-4 units)(Prerequisites: Communications 154 is a prerequisite for 253. Communications 253 is a prerequisite for 254. Three lecture and three laboratory hours weekly.)  
Advanced production project or completion of two-semester production. Option of advanced crew work, for a minimum of 50 hours, with primary responsibility for one aspect of project; crew work journal required. Communications 254 may be taken four times for credit. (CSU)

FIRE TECHNOLOGY COURSES

FIRE 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

FIRE 112  Emergency Medical Technician – 1  
(6 units)(Prerequisite: First Aid for Public Safety Personnel – Title 22, or Advanced First Aid. Previous EMT-1, EMT-2, EMT-P accepted. Also CPR certification - CPR for Health Care Providers. Five lecture and three laboratory hours weekly. Plus ten additional hours to be arranged.)  
This course provides instruction in the skills and knowledge required for the Emergency Medical Technician (EMT1) scope of practice. Supervised clinical experience in the hospital Emergency Room and with emergency ambulance providers is included. A criminal background check is required upon acceptance. (CSU)

FIRE 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

FIRE 249  Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

FIRE 255  Wildland Fire Fighting  
(1½ units)(No prerequisite. Sixteen lecture and twenty-four laboratory hours.)  
A basic course designed to give the student a fundamental understanding of the wildland fire behavior, safety equipment, dozer safety, construction of handlines, and fire control. May be taken four times for credit. (CSU)
FRENCH COURSES

All French courses can be taken for a letter grade or credit/no credit.

In general, courses required for a transfer student's four-year major should be taken on a letter grade basis.

FREN 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

FREN 101  Elementary French I
(5 units)(No prerequisite. Four lecture and three laboratory hours weekly.)
A beginning course which offers study and practice in speaking, understanding, reading, and writing French, along with an exploration of cultural aspects of the French-speaking world. The three-hour weekly laboratory requirement enhances the student's verbal and comprehension skills through the use of audiovisual materials. May also be offered in a distance learning format. (CSU/UC)

AA/AS Area C, CSU Area C-2, CAN FREN 2, CAN FREN SEQ A = Fren 101 + 102, UC Language other than English

FREN 102  French Classic Literature Goes to the Movies
(3 units)(Prerequisite: French 101. Three lecture hours weekly.)
Further emphasis is placed on the structure of the language, verbal communication, and understanding of French culture. Continued use of the language laboratory for further mastery of the language. (CSU/UC)

AA/AS Area C, CSU Area C-2, IGETC Area 3B, CAN FREN 4, CAN FREN SEQ A = Fren 101 + 102

FREN 108A  French Culture and Literature Go to the Cinema
(3 units)(Prerequisite: French 101 or equivalent. Three lecture hours weekly.)
This course is designed to introduce students to the films that were inspired by classic, significant and, in many instances, famous literary pieces. The emphasis will be on the connection between the novel/story and its artistic expression in the film. This course will teach the students about traditional and modern trends in French literature and film. It will establish a connection between literature and socio-cultural and political changes in French-speaking countries, through these two artistic and expressive means.

CSU Area C-2, IGETC Area 3B

FREN 108B  French Culture and Literature Go to the Cinema
(3 units)(Prerequisite: French 101 or equivalent. Three lecture hours weekly.)
This course is designed to introduce students to the films that were inspired by famous cultural aspects of the twentieth century in French society. The emphasis will be on the connection between the French era and its artistic expression in the film. This course will also teach the student about traditional and modern trends in French literature. It will establish a connection between socio-cultural and political changes in French-speaking countries, through these two artistic and expressive means.

CSU Area C-2, IGETC Area 3B

FREN 110  Conversational French I
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
Use of modern colloquial French in conversation with elementary grammar. Designed for students who wish to acquire skills of the spoken language with a minimum of formal grammar.

Oral practice in speaking and understanding French through the use of videos, audiocassettes, and other audiovisual packages related to class work. Use of audio materials depicting everyday situations for improving fluency and accuracy in pronunciation. Can also be offered in a distance learning format. (CSU)

FREN 112  Conversational French II
(4 units)(Prerequisite: French 110. Three lecture and three laboratory hours weekly.)
Continued use of modern colloquial French in conversation with elementary grammar. Designed for students who wish to acquire skills of the spoken language with a minimum of formal grammar.

Continued oral practice in speaking and understanding French through the use of videos, audiocassettes, and other audiovisual packages related to class work. Use of audio materials depicting everyday situations for improving fluency and accuracy in pronunciation. (CSU)

FREN 114  Conversational French III
(4 units)(Prerequisite: French 112. Three lecture and three laboratory hours weekly.)
Continued use of modern colloquial French in conversation with elementary grammar. Designed for students wishing to acquire skills of the spoken language with a minimum of formal grammar.

Continued oral practice in speaking and understanding French through the use of videos, audiocassettes, and other audiovisual packages related to class work. Use of audio materials depicting everyday situations for improving fluency and accuracy in pronunciation. (CSU)

FREN 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

FREN 203  Intermediate French III
(5 units)(Prerequisite: French 102. Advisory: Concurrent enrollment in French 114. Four lecture and three laboratory hours weekly.)
Review and expansion of grammatical concepts with continued emphasis on verbal communication. Introduction to literary and journalistic readings for vocabulary and idiom expansion as well as cultural enrichment. (CSU/UC)

AA/AS Area C, IGETC Area 3B
FREN 204 Intermediate French IV
(4 units)(Prerequisite: French 203. Four lecture hours weekly.)
A further study of the French language with a review of the grammar and extensive readings from the literature and press with emphasis on verbal communication. An exploration of the use of French and the impact of French culture outside of France. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

FREN 225-226 Advanced French I and II
(3-3 units)(Prerequisite for French 225 is French 204. French 225 is a prerequisite for French 226. Three lecture hours weekly.)
Courses aimed at expanding the student’s knowledge of the French language and civilization through the study of grammar, literature, and the French press, with particular emphasis on present-day France. Additional emphasis is placed on an advanced level of verbal communication. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

FREN 249 Directed Study
(1-3 units)(Limit to Enrollment: French 225 and 226.)
Hours and content to be arranged by consultation with the instructor. This course may be taken four times for credit. (CSU/UC w/limit)

GEOGRAPHY COURSES

GEOG 39 Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

GEOG 101 The Physical Environment
(3 units)(No prerequisite. Three lecture hours weekly.)
Description, explanation and world distribution of the natural phenomena that constitute man’s physical environment. The phenomena surveyed include earth-sun relationships, weather, climate, soils, and landforms. Principles of map construction and interpretation are also studied. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5A, CAN GEOG 2

GEOG 101L Physical Environment Laboratory
(1 unit)(Prerequisite: Geography 101 or concurrent enrollment. Three laboratory hours weekly.)
Practical observations and applications of the geographic grid, atlases and topographic maps; rocks and tectonic activity, weather and climate, and natural vegetation and soils. Exercises are designed to supplement Geography 101. Classes will meet periodically at off-campus locations within Marin County and students are expected to provide their own transportation. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5A

GEOG 102 The Human Environment
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is designed to offer students an overview of the interrelationships between human societies and the environment. It includes an examination of population developments, migrations, environmental modifications, and the spatial distribution of phenomena such as language, religion, economic systems, and urbanization. (CSU/UC)
AA/AS Area B, CSU Area D-5, IGETC Area 4, CAN GEOG 4

GEOG 109 Geography of California
(3 units)(No prerequisite. Three lecture hours weekly.)
An introduction to the tools of geography, to the systems approach to the study of the physical and biological elements of California’s landscape, to the distribution patterns of these elements, and to the significance of such patterns. (CSU/UC)
AA/AS Area A or B, CSU Area D-5, IGETC Area 4

GEOG 112 Meteorology and Climatology
(3 units)(No prerequisite. Three lecture hours weekly.)
This survey course in climatology and meteorology introduces the student to the studies of atmospheric sciences and the consequences that face the floral and faunal assemblage of the earth as man and nature continue to alter the atmosphere and subsequent climate. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5A

GEOG 116 Field Geography, Marin Country
(1 unit)(No prerequisite. Three lecture and three laboratory hours weekly for five weeks.)
Each offering includes field exposure and experience with data collection techniques related to Marin’s biogeographic zones, geologic bedrock and soils characteristics, hydrological, atmospheric, and cultural geographic characteristics. May be taken four times for credit. (CSU)

GEOG 116L Field Geography, Marin Country Laboratory
(1 unit)(Prerequisite: Geography 101 or concurrent enrollment. Three laboratory hours weekly.)
Practical observations and applications of the geographic grid, atlases and topographic maps; rocks and tectonic activity, weather and climate, and natural vegetation and soils. Exercises are designed to supplement Geography 101. Classes will meet periodically at off-campus locations within Marin County and students are expected to provide their own transportation. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5A

GEOG 125 Introduction to Geographic Information Systems
(1½ units)(No prerequisite. Advisories: Familiarity with Windows operating system and software is “highly” recommended. Suggested completion of Computer Science 110 or Computer Information Systems 110 or 101. Two lecture and three laboratory hours weekly for eight weeks.)
An interdisciplinary course that explores Geographic Information Systems (GIS) used for acquisition, storage, management, analysis, and communication of spatial data. The course addresses how GIS can be used as a tool for diverse academic disciplines. The course will introduce the student to GIS through the use of ArcGIS software. The subsequent course (Geography 126) is a project-oriented course that stresses access and application of data in the student’s chosen academic area of interest. (CSU/UC)

GEOG 126 Field Geographic Information Systems Laboratory
(1½ units)(Prerequisite: Geography 116. Three laboratory hours weekly.)
Practical observations and applications of the geographic grid, atlases and topographic maps; rocks and tectonic activity, weather and climate, and natural vegetation and soils. Exercises are designed to supplement Geography 116. Classes will meet periodically at off-campus locations within Marin County and students are expected to provide their own transportation. (CSU/UC)
AAA/AS Area A, CSU Area B-1, IGETC Area 5A, CAN GEOG 2

GEOG 128 Field Geographic Information Systems Analysis
(3 units)(Prerequisite: Geography 116. Three lecture hours weekly.)
An interdisciplinary course that explores Geographic Information Systems (GIS) used for acquisition, storage, management, analysis, and communication of spatial data. The course addresses how GIS can be used as a tool for diverse academic disciplines. The course will introduce the student to GIS through the use of ArcGIS software. The subsequent course (Geography 126) is a project-oriented course that stresses access and application of data in the student’s chosen academic area of interest. (CSU/UC)
GEOG 126  Application of Geographic Information Systems in Research
(1½ units)(Prerequisite: Geography 125. Two lecture and three laboratory hours weekly for eight weeks.)
Geographic Information Systems use has become essential to the effective operation of both public and private organizations. Students will be taught how to retrieve and apply data from their area of interest using ArcGIS software. Students will develop a project related to their area of academic interest and submit written and oral presentations of their project using GIS software and other skills developed in this course and the prerequisite course. (CSU)

GEOG 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

GEOG 249  Directed Study
(1-3 units)(Limit to Enrollment: Completion of at least two courses in geography with a grade point average of 3.0 or higher in those courses.)
Directed study may consist of readings, research, or projects which are to be arranged with a geography instructor the semester prior to that in which the directed study is to be done.
This course may be taken more than once for credit. Please see Directed Study category. (CSU/UC w/limit)

GEOLOGY COURSES

GEOL 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

GEOL 99  General Science
(3 units)(No prerequisite. Can be taken for credit as Geology 99 or Biology 99. However, credit will be awarded for only one course. Three lecture hours weekly.)
This course is designed for students who have not reached the level of success they desired in high school or college science courses and for individuals returning to school after an extended absence. The course covers basic scientific principles and concepts of the physical and life sciences and prepares students to move into other science classes with the information, understanding, and skills required to succeed. Introductory topics in biology, chemistry, geography, geology, meteorology, and physics are discussed. This course also provides an excellent overview of the most important topics in science today for anyone interested in learning more about the natural world.

GEOL 101  Geological Field Excursions to National Parks
(1 unit)(Prerequisite: Concurrent enrollment in Geology 102. There will be three, two-day field trips.)
This course provides the opportunity to see and understand more fully the geology, landforms, and natural environment of national parks. Three, two-day field trips will be required. This course will normally be offered in the spring semester. Students should be aware that minimal expenses would be incurred during the field trips. This course is repeatable if different national parks are studied. (CSU)

GEOL 102  Geologic Setting of the National Parks
(2 units)(No prerequisite. Two lecture hours weekly.)
Designed for the student’s enrichment of the natural environment of National Parks, with emphasis on parks of the western hemisphere. (CSU)

GEOL 103  Environmental Geology
(3 units)(No prerequisite. Three lecture hours weekly.)
Environmental geology is the fascinating study of the interactions of the human race and the physical environment. The course centers on how mankind alters the physical environment in order to better suit our immediate needs and how these alterations in turn dictate the course of our future. The emphasis is always on the balance between short-term reward and long-term consequence. Field trips may be offered. (CSU/UC)

AA/AS Area A

GEOL 105  Cosmic Evolution
(3 units)(No prerequisite. Can be taken for credit as Astronomy 105, Biology 105, or Geology 105. However, credit will be awarded for only one course. Three lecture hours weekly.)
This is an interdisciplinary course that explores the origins and evolution of the cosmos from the Big Bang and the formation of the universe and Earth, to the development of life. Students will explore basic concepts and principles that bind all scientific disciplines, and the nature of science and scientific inquiry. Through the study of astronomy, chemistry, geology, and biology, students will discover the interrelatedness of all matter, living and nonliving in the cosmos and how physical and chemical processes eventually led to the evolution of living organisms. (CSU/UC)
AA/AS Area A, CSU Area B-1 or B-2, IGETC Area 5A

GEOL 107  Introduction to Rocks and Minerals
(1-3 units)(No prerequisite. One-half lecture hour and one and one-half laboratory hours weekly per unit.)
A beginning course in the study and identification of common rocks and minerals. (CSU)
GEOL 109  General Oceanography
(3 units)(No prerequisite. Three lecture hours weekly.)
A general survey course in ocean science for any interested student. Particularly important for students considering a career in marine science or technology. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5A

GEOL 110  Earth Science
(3 units)(No prerequisite. Three lecture hours weekly. Not open to students who have taken or are taking Geology 120.)
Introduction to the basic principles of geology. A nonlaboratory general education course. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5A

GEOL 114  Geology of California
(3 units)(No prerequisite. Three lecture hours weekly.)
A study of California's scenic landscape and geologic environments. (CSU/UC)
AA/AS Area A, IGETC Area 5A

GEOL 115  Volcanoes
(1 unit)(No prerequisite. One lecture hour weekly.)
A study of the nature and power of the major active volcanoes of the world. (CSU)

GEOL 116  Volcanoes and Earthquakes
(2 units)(No prerequisite. Two lecture hours weekly.)
An introduction to the geological workings of Earth focusing on the study of the causes, processes, and products of volcanoes and earthquakes. Great natural disasters and scientific efforts to predict such disasters are studied. (CSU/UC)

GEOL 120  Physical Geology
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is the study of the basic principles of geology and the processes responsible for the formation of rocks, minerals, and the natural landforms of the earth. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5A, CAN GEOL 2=Geol 120 + 120L

GEOL 120L  Physical Geology Lab
(1 unit)(Prerequisite: Geology 120 or concurrent enrollment. Three laboratory hours weekly.)
This course is a hands-on study of minerals, rocks, maps, and geologic field problems. Students will emerge with life skills that will enable them to interpret the geologic conditions of their surroundings. This laboratory class is field-oriented. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5A, CAN GEOL 2=Geol 120 + 120L

GEOL 121  Historical Geology
(4 units)(Prerequisite: Geology 120 and 120L. Three lecture and three laboratory hours weekly.)
A study of Earth's past and the evolution of landscapes and living organisms throughout geologic time. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5A

GEOL 125  Field Geology I
(2½ units)(Prerequisite: Geology 110 or 120 or concurrent enrollment. Seventy-eight and three-fourths hours of field investigation to be arranged over three weekends, and sixteen lecture hours to be arranged.)
Lecture and field trips designed to introduce geologic field studies, and to acquaint students with the geology and geologic history of Northern California. May be taken four times for credit. (CSU/UC)

GEOL 126  Field Geology II
(2 units)(Prerequisite: Geology 120. Contact instructor before enrolling. A ten-day field trip during the spring break and twelve lecture hours to be arranged.)
The study of geologic phenomena in selected areas of the Western United States. May be taken four times for credit. (CSU/UC)

GEOL 127AB  Extended Field Studies
(1½ - 3 units)(Prerequisite: Geology 120. A seven-day field trip and eight lecture hours to be arranged for one and one-half units, and a fourteen-day field trip and sixteen lecture hours to be arranged for three units.)
A one- or two-week field investigation of a selected area. May be taken four times for credit. (CSU)

GEOL 128  Geologic Studies of Pt Reyes and the San Andreas Fault
(2 units)(No prerequisite. A three-hour meeting is required at the beginning for logistics. Five eight-hour sessions.)
Marin County is blessed with an extraordinary geology. This course focuses on the Point Reyes Peninsula and its relationship to the San Andreas Fault System. The course meets for a total of 40 hours at geologically unique locations chosen to illustrate the geologic features and geological history of this portion of the county through field lecture, direct observation and geological exercises. May be taken twice for credit. (CSU)

GEOL 129  Field Studies of Marin East of the San Andreas Fault
(2 units)(No prerequisite. A three-hour meeting is required at the beginning for logistics. Five eight-hour sessions.)
Marin County is blessed with an extraordinary geology. This course focuses on the area east of the San Andreas Fault. The course meets for a total of 40 hours at geologically unique locations chosen to illustrate the geologic features and geological history of this portion of the county through field lecture, direct observation and geological exercises. (CSU)
GEOL 138 Introduction to Biological Sciences
(4 units)(No prerequisite. Can be taken for credit as Biology 138 or Geology 138. However, credit will be awarded for only one course. Three lecture and three laboratory hours weekly.)

This course is a science-based course and takes an interdisciplinary approach to understanding the environmental crisis that confronts us all. Our studies combine ideas and information from natural sciences (such as biology, chemistry and geology) and social sciences (such as economics, politics, and ethics) to present a general idea of how nature works and how humans and ecosystems are interconnected. It is a study of connections in nature. Discussions will focus on an understanding of ecosystem services, how humans interfere with earth’s life support systems and how to deal with the environmental problems we face. Emphasis is placed on understanding various worldviews and how they affect our values. Our field studies will include visits to restoration projects, local ecosystem field studies and local environmental conferences. (CSU/UC)
CSU Area B-1, IGETC Area 5A, 5B

GEOL 139 Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

GEOL 140 Environmental Field Techniques
(1 unit)(No prerequisite. Can be taken for credit as Geology 140 or Biology 140. However, credit will be awarded for only one course. Three laboratory hours weekly.)

This course is designed to teach the fundamentals of environmental sampling and monitoring. Topics include surveying and mapping; data collection and management; and hydrological, geological, and biological assessment methods. This course is field-based, and the emphasis is on the mastery of practical field techniques. May be taken four times for credit. (CSU)

GEOL 142 Environmental Policy and Planning
(3 units)(No prerequisite. Can be taken for credit as Geology 142 or Biology 142. However, credit will be awarded for only one course. Three lecture hours weekly.)

This course is a study of federal, state, and local environmental legislation. It is a chronology of America’s awakening to environmental issues and a study of our efforts to resolve these issues through the planning process. An understanding of the content of this course is vital for environmental scientists, planners, and developers. (CSU/UC)

GEOL 145 Ethics in Science
(3 units)(No prerequisite. Can be taken for credit as Geology 145 or Biology 145. However, credit will be awarded for only one course. Three lecture hours weekly.)

This course explores some of the most pressing issues facing our society today. It enables students to investigate and understand the controversies surrounding current and future technologies, and helps them make rational decisions when faced with situations in their own lives and at the voting booth. The approach is an interdisciplinary one, combining basic science, applied research, ethics, and decision-making processes. Topics include scientific fraud, recombinant DNA technologies, the human genome project, energy and land use, and toxic waste. This course is appropriate for both science and nonscience majors. (CSU)

AA/AS Area C

GEOL 201 Elementary Mineralogy
(4 units)(Prerequisite: Geology 120. Three lecture and three laboratory hours weekly.)

An introduction to the basic principles of mineralogy including crystallography; the basic concepts of physical, chemical, and optical mineralogy; and the formation and occurrence of mineral deposits. Laboratory work includes the determination of minerals by physical properties, chemical tests with the use of the blowpipe, crystal morphology, and the study of minerals in thin section under the polarizing microscope. (CSU/UC)

GEOL 242 Geology and Biology of the Basin and Range and the Colorado Plateau
(3 units)(No prerequisite. Can be taken for credit as Geology 242 or Biology 242. However, credit will be awarded for only one course. A two-week field trip that includes seventeen and one-half lecture hours and thirteen, eight-hour field experiences.)

This course is a two-week field course through the Basin and Range and Colorado Plateau Provinces. It includes a raft trip down the Colorado or Green River. The geological and biological evolution of the area are explored through observation, experimentation, and study of the diverse abiotic and biotic contributors to the area. Course topics include: stratigraphy and structure; fluvial landforms and processes; species dispersion, radiation and evolution; ecology; and the art of fly fishing. Through lectures and a broad range of field experiences, students will gain an understanding of the factors that shaped and continue to shape this unique area. May be taken four times for credit. (CSU)

GEOL 249 Directed Study
(1-3 units)(Limit to Enrollment: Prior arrangement with the instructor is necessary. At least ten units of geology work completed with a grade point average of 2.7 or higher.)

A course designed to give the student an opportunity to participate in a research program. May be taken more than once for credit. (CSU w/limit)
GEOL 250  Scientific Research and Reporting  
(1 unit) (No prerequisite. Advisories: Biology 110 and Geology 120. Can be taken for credit as Geology 250 or Biology 250. However, credit will be awarded for only one course. One lecture hour weekly.)  
Scientific research and reporting is a hands-on, individualized course designed to walk learners step-by-step through a scientific research project of their choice. The final report of their findings will be delivered at a professional meeting. This course is designed for science majors that have completed the first year of their curriculum and desire a hands-on, real world experience in science. May be taken four times for credit. (CSU/UC)

HEALTH EDUCATION COURSES

H ED 39  Selected Topics (Nondegree Applicable)  
(½-6 units) (Please see Selected Topics category.)

H ED 112  Drugs and Society  
(3 units) (No prerequisite. Three lecture hours weekly.)  
This course will cover the historical, sociological, physiological, pharmacological, and legal aspects of drugs. Emphasis will be placed on the effects of tobacco, alcohol, narcotics, restricted drugs, and other substances. Nutrition, genetics, environment, and poly-drug factors concerning drug actions will be discussed. The various education, prevention, treatment, and rehabilitation approaches to the problem of drug abuse will be covered. (CSU)  
CSU Area E

H ED 115  Weight Control, Exercise and Nutrition  
(3 units) (No prerequisite. Three lecture hours weekly.)  
This course will provide the nutritional information and latest research knowledge in exercise physiology for individuals desiring to develop a weight control program for themselves. It will act as a support program and resource center for those attempting to develop a new lifestyle including proper nutrition and exercise as a part of their daily routine. May be taken four times for credit. (CSU/UC)

H ED 130  Web Based Course - Contemporary Health Issues  
(3 units) (No prerequisite. Three lecture hours weekly.)  
This Web based course will include, but not be limited to, the study of physical and psychological health, creating healthy relationships, avoiding and overcoming harmful habits, prevention of disease and developing healthy lifestyles. Specific topics may include managing stress, birth control, pregnancy, childbirth, sexually transmitted diseases including AIDS, drug, alcohol and tobacco use and abuse, nutrition and fitness, aging, environmental health and consumerism. (CSU/UC)  
CSU Area E

H ED 139  Selected Topics  
(½-6 units) (Please see Selected Topics category.) (CSU w/limit)

H ED 142  Growing Older: Physical, Psychological, and Social Aspects of Aging  
(3 units) (No prerequisite. Can be taken for credit as Health Education 142 or Psychology 142. However, credit will be awarded for only one course. Three lecture hours weekly.)  
This course will examine the aging process in the contemporary world. Topics explored will include physical changes, psychological changes, and social changes occurring as people age; theories regarding why these changes occur; and how to maximize potential in these areas. Other topics will be work and retirement, death and bereavement, local and national resources for aging individuals, and myths associated with aging. (CSU/UC)  
AA/AS Area B, CSU Area E, IGETC Area 4

H ED 249  Directed Study  
(1-3 units) (Please see Directed Study category.) (CSU w/limit)

HISTORY COURSES

HIST 39  Selected Topics (Nondegree Applicable).  
(½-6 units) (Please see Selected Topics category.)

HIST 100  Survey of American History  
(3 units) (No prerequisite. Three lecture hours weekly.)  
History of the United States from its Native American and colonial background to the present. Social, economic, and political institutions and developments are examined. History 117 and 118 are recommended or required for majors and minors in history, teaching, social science, prelegal, and certain other areas. Can also be offered in a distance learning format. (CSU/UC)  
AA/AS Area B or F, CSU Area D-6, IGETC Area 4, CSU US History, Constitution, and American Ideals

HIST 101  World History I: Origins of the Major Traditions  
(4 units) (No prerequisite. Four lecture hours weekly.)  
Beginning with the earliest transitions of human societies to sedentary communities, this course investigates original river-based civilizations of Mesopotamia, Egypt, India, and China; the evolution of early societies in Sub-Saharan Africa and the pre-Columbian Americas; major Eurasian states and empires of antiquity (Hellenic, Persians, Chinese, Indian, Roman); major pre-Columbian civilizations including Inca, Maya, and the Valley of Mexico; and the transformations of the post-classical world, with emphasis on the impacts of the universalizing traditions of Christianity, Islam and Buddhism. (CSU/UC)  
AA/AS Area B, CSU Area D-6, IGETC Area 4
HIST 102  World History II: Evolution of the Modern World
(4 units)(No prerequisite. Four lecture hours weekly.)
Beginning with the overseas voyages of discovery during the 15th century C.E., this course traces the growing complexity of global interaction associated with early modern societies in their pre-industrial phases. The focus includes the transformation of the European realm during the 16th-18th centuries C.E. (e.g. the Reformation and Scientific Revolution) and their impacts on non-European cultures and regions; interactions between and within the Western Hemispheres (i.e. differing patterns of colonial societies); the African Diaspora and its impacts upon the Americas; demographic, institutional, cultural, materials, and epidemiological aspects of trans-continenal and trans-oceanic exchanges; and the shifting fortunes of East Asian and Islamic states such as China, Japan, and the Ottoman Empire. The second half of the course examines societies from the global perspective as they come transformed from the mid-18th century C.E. by the revolution army forces of industrialization and secular ideologies (e.g. liberalism, conservatism, socialism, nationalism, fascism, terrorism). Emanating largely from the Western World, these forces have fueled the engines of historical change during the 19th and 20th centuries C.E., producing the rise and fall of states and empires, the unleashing of two world wars and countless regional conflicts, and redefining the nature of a contemporary world increasingly globalize and interdependent, as well as fraught with perils and challenges. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4

HIST 103  Science, Technology, and Civilization
(3 units)Formerly Social Science 103. (No prerequisite. Three lecture hours weekly.)
This course is a nontechnical introduction to the history of science and technology, examining their impact upon civilization, including significant social, religious, ethical, and political issues resulting from scientific and technological advances. It may also be offered as a self-paced distance learning course with students viewing videocassettes at their convenience. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4

HIST 109  History of California
(3 units)(No prerequisite. Three lecture hours weekly.)
A survey of California’s past through the Native American, Spanish, Mexican, and American periods. Among the topics covered are the California missions, the Gold Rush era, San Francisco’s “Victorian” era, and recent political, economic, and social developments. (CSU/UC)
AA/AS Areas B & G, CSU Area D-6, IGETC Area 4

HIST 110*  Western Civilization I: To 1350
(3 units)(No prerequisite. Three lecture hours weekly.)
The emergence and development of the institutions of Western Civilization from their Middle Eastern origins through the classical Greek and Roman civilizations and the Middle Ages. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4, CAN HIST SEQ A = Hist 110 + 111 + 112

HIST 111*  Western Civilization II: 1350 to 1815
(3 units)(No prerequisite. Three lecture hours weekly.)
A study of Western Civilization during the Renaissance, the Enlightenment, and through the French Revolution and the Napoleonic era. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4, CAN HIST SEQ A = Hist 110 + 111 + 112

HIST 112*  Western Civilization III: The 19th and 20th Centuries
(3 units)(No prerequisite. Three lecture hours weekly.)
A study of Western Civilization during the nineteenth and twentieth centuries beginning with the Congress of Vienna and concluding with the contemporary world. This course will examine issues such as: the growth of an industrial civilization; nationalism and imperialism; the interaction of the West with the non-Western world; and idealism and realism while using the experience of the Western Civilization. Analysis will involve the search for artifacts such as continuity and change in patterns of development and motivation.
* Note: These courses may be taken in any sequence and require no prerequisites. They are especially recommended for students who intend to pursue their education toward a Bachelor’s degree. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4, CAN HIST 4, CAN HIST SEQ A = Hist 110 + 111 + 112

HIST 117  History of the United States I
(3 units)(No prerequisite. Three lecture hours weekly.)
A survey of the economic, political, social, and cultural evolution of the United States from its pre-Columbian beginnings through the Civil War. This course is recommended over History 100 for majors in prelegal, social science, liberal arts, and teaching. (CSU/UC)
AA/AS Area B or F, CSU Area D-6, IGETC Area 4, CAN HIST 8, CAN HIST SEQ B = Hist 117 + 118, CSU US History, Constitution, and American Ideals

HIST 118  History of the United States II
(3 units)(No prerequisite. Three lecture hours weekly.)
A survey of the economic, political, social, and cultural evolution of the United States from 1865 to the present. This course is recommended over History 100 for majors in prelegal, social science, liberal arts, and teaching. (CSU/UC)
AA/AS Area B or F, CSU Area D-6, IGETC Area 4, CAN HIST 10, CAN HIST SEQ B = Hist 117 + 118, CSU US History, Constitution, and American Ideals
HIST 119  Europe, the Mighty Continent
(3 units)(No prerequisite. Three lecture hours weekly.)
This course deals with Europe's political, economic, and cultural preeminence in 1900 and continues through World War I, the rise of European dictators, World War II, the rise of Soviet power, and the search for European unity. It incorporates the noted BBC television series narrated by Peter Ustinov, and may also be offered as a self-paced distance learning course with students viewing videocassettes at their convenience. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4

HIST 120  Europe in Perspective
(3 units)(No prerequisite. Three lecture hours weekly.)
This course traces the rise of Europe from the Renaissance of the fourteenth and fifteenth centuries through the upheavals of the twentieth century. Included in its scope is an examination of the rise of individualism, the breakdown of religious unity, the search for personal freedom and collective security, explorations in modes of artistic and intellectual expression, revolutionary movements, technological and social change, ideologies and counter-ideologies (nationalism, liberalism, socialism, conservatism, anarchism, romanticism, expressionism, existentialism, fascism, and communism), the rise of mass democracy, the changing nature of warfare, and forms of economic organization. The course also focuses on significant European personalities as well as on important cultural and political centers. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4

HIST 122  The West and the World
(3 units)(No prerequisite. Three hours weekly.)
The interrelationship of Western Civilization with the non-West including Africa, India, China, Japan, the Islamic world, and the profound changes that this has brought about in the contemporary world. This is a videocassette course. (CSU/UC)
AA/AS Area B, CSU Area D-6

HIST 124  Civilization
(3 units)(No prerequisite. Three hours weekly.)
This videocassette course is organized around Kenneth Clark's remarkable 13-part BBC series "Civilization," a unique and personal perspective on the cultural, intellectual, and social history of Europe since the Middle Ages. (CSU/UC)
AA/AS Area B

HIST 125  Research Methods and Term Papers in the Social Sciences
(3 units)(No prerequisite. Advisory: Competence in written language skills comparable to eligibility for English 150. Students may receive credit for this course as Economics 125, Ethnic Studies 125, History 125, Political Science 125 or Social Science 125. However, credit will be awarded for only one discipline. Three lecture hours weekly.)
This course focuses on the elements of critical thinking and methods of research in the social sciences and develops skills required to organize such thought and research into effective, college-level presentations. Various social science faculty members will offer their expertise to students on an individual basis as they develop their presentations. Students are encouraged to select areas of research from other courses taken during the semester or from areas of special interest including politics, history, economics, education, women's studies, ethnic studies, current issues, and issues of community concern.
History 125 is designed for students who want the research and term paper skills, but are not working for satisfaction of the Critical Thinking Requirement (A, III) for the Bachelor of Arts degree at California State University. Social Science 125 does meet that requirement. (CSU/UC)

HIST 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

HIST 206  History of Russia
(3 units)(No prerequisite. Three lecture hours weekly.)
A survey of Russian history from the earliest times through the collapse of the Soviet Union and the emergence of its successor states. Emphasis is on both the unique features of Russian history and on the features of development Russian history shares with other histories. Continuities and the discontinuities in social, political, economic, cultural, and intellectual heritage are examined. “East West” relations are examined. Special attention is given to the collapse of the Soviet system, and the transitional and successor states are considered in a historical light. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4

HIST 214  History of Latin America
(3 units)(No prerequisite. Three lecture hours weekly.)
A historical survey of Latin America beginning with pre-Columbian societies. The survey investigates European colonization, colonial culture combined with native culture and national emergence in the nineteenth century. It also covers the economic maturity of the twentieth century, the emergence of indigenous culture, and Latin America's striving for independent identity. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4

HIST 215  History of England
(3 units)(No prerequisite. Three lecture hours weekly.)
A survey of English history from pre-Roman times to the present including the more important political, economic, social, and cultural developments. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4

HIST 216  History of Mexico
(3 units)(No prerequisite. Three lecture hours weekly.)
A study of Mexico beginning with the pre-Columbian societies. The social, cultural, and political changes under Spanish colonization lead to the independence movement and a search for national identity. The revolutionary events leading to the Constitution of 1917 open a new era. In the later twentieth century, the industrialization of the country accelerates and complicates Mexican development. Can also be offered in a distance learning format. (CSU/UC)
AA/AS Area B, CSU Area D-6, IGETC Area 4
HIST 226  Jewish History  
(3 units)(No prerequisite. Three lecture hours weekly.)  
A historical overview of the Jewish people from Biblical times to the present including their American experience. (CSU/UC)  
AA/AS Area B, CSU Area D-6, IGETC Area 4

HIST 238  History of Sub-Saharan Africa  
(3 units)(No prerequisite. Three lecture hours weekly.)  
A historical survey of Sub-Saharan Africa including its cultures and the evolution of its political system. (CSU/UC)  
AA/AS Area B, CSU Area D-6

HIST 249  Directed Study  
(1-3 units)(No prerequisite. Please see Directed Study category.)  
(CSU/UC w/limit)

HUMANITIES COURSES

HUM 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

HUM 100A  Introduction to Humanities: Ancient Greece to the Medieval Period  
(3 units)(Prerequisite: Eligibility for English 120. Three lecture hours weekly.)  
This humanities sequence is designed to introduce students to western culture. The course focuses on Greek and Roman culture: the epics, philosophy, and architecture of these periods. Students will study the themes and conflicts that the modern world has inherited. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B

HUM 100B  Introduction to Humanities: Renaissance to the Modern Period  
(3 units)(Prerequisite: Eligibility for English 120. Three lecture hours weekly.)  
This humanities sequence is designed to introduce students to Western culture. This course begins in the late medieval period, focusing on the developing Renaissance and the impact on Europe's "rebirth" of Asian and Arabic ideas. The scientific revolution of Shakespeare's England and the political revolutions of the seventeenth and eighteenth centuries constitute the next third of the class. The last section includes Romanticism, the new paradigms of Freud, Marx, and Darwin, and concludes with the Age Anxiety. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B

HUM 107  Humanities through the Arts  
(3 units)(No prerequisite. Three lecture hours weekly.)  
This course surveys the full range of artistic expression from ancient times to the present, examining the relation between human creativity and the larger cultural setting. Through 15 hours of videotaped programs hosted by poet Maya Angelou, students can observe how various art forms—painting and music, sculpture and architecture, drama and film—all reflect humankind's continuing quest for dignity and meaning. This self-paced course offers the non-art specialist an accessible introduction to the interplay of art forms evolving over the centuries. (CSU/UC)  
AA/AS Area C, IGETC Area 3B

HUM 108  Arts of the Americas  
(3 units)(No prerequisite. Can be taken for credit as Humanities 108, Art 108 or Ethnic Studies 108. However, credit will be awarded for only one course. Three lecture hours weekly.)  
A survey of the arts and architecture of the Americas — North, Central, Caribbean, and South Americas — focusing on a selection of works from the major Pre-Columbian, Spanish Colonial, and modern cultures. Art of the United States will focus on works from the culturally diverse peoples of the Bay Area. (CSU/UC)  
AA/AS Areas C & G, CSU Area C-1, IGETC Area 3A

HUM 109A  History of Film: Beginning to 1950  
(4 units)(No prerequisite. Can be taken for credit as Humanities 109A or Communications 109A. However, credit will be awarded for only one course. Four lecture hours weekly.)  
This course offers a chronological survey of narrative film as art, business, technology, and politics from the beginning of the movies in the 1890s to post World War II. Periods and movements covered will include the Silent Era, German Expressionism, Soviet Avant Garde and editing of the 1920s, French classicism, American Studio Period and sound, as well as the history of censorship in the United States. Classroom screenings of representative films. (CSU/UC)  
AA/AS Area C, CSU Area C-1, IGETC Area 3A

HUM 109B  History of Film: 1950 to the Present  
(4 units)(No prerequisite. Can be taken for credit as Humanities 109B or Communications 109B. However, credit will be awarded for only one course. Four lecture hours weekly.)  
This course offers a chronological survey of narrative film as art, business, technology, and politics from 1950 to the present. Periods and movements covered will include the American Studio Period, 1950s Film Noir and subversive movements, Italian Neorealism, French Nouvelle Vague, National Cinemas of Sweden, England, Czech Golden Age, Poland, Hungary, Japan, India, China, Iran, The New German Film, Third World Cinemas; Australia, the Hollywood Renaissance of the 1960s and 1970s, Dogma 95, and independent film movements. (CSU/UC)  
AA/AS Area C, CSU Area C-1, IGETC Area 3A
HUM 114  The Long Search: An Introduction to the World’s Religions
(3 units)(Prerequisite: Eligibility for English 120. Students may receive credit for Humanities 114 or 118, but not for both courses. Three lecture hours weekly.)

Thirteen one-hour cassettes in this series trace the journey of a lone traveling host on his global search for religious understanding. Along the way he witnesses the modern interpretation of new and ancient religions, studying each religion’s history as well as its relationship to the host society. The 12 major religions are presented in a unique and imaginative documentary style. Class meetings with the instructor will augment the videocassette tapes with lecture and discussion. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

HUM 118  Introduction to World Religions
(3 units)(Prerequisite: Eligibility for English 120. Students may receive credit for Humanities 118 or 114, but not for both courses. Three lecture hours weekly.)

This course is an introduction to the major religious traditions of the world, and the spiritual practices of preliterate or primal religions. The course will focus equally on East and West, principles and practice, history and psychology. Examples of the art, music and literature of Hinduism, Buddhism, Islam, Chinese Religion, Judaism, Christianity and primal religions will be presented to enhance the experience and understanding of the religions. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

HUM 121  Asian Thought and Culture
(3 units) (Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

This course focuses on the arts, philosophy, ethics, mythology, and symbols of India and China, traditionally the most influential cultures of Asia. The primary goal is an understanding of the philosophy and psychology of the East. An integrated approach will be used, so that students can see the close relationship between the arts, and beliefs, and the effect these nations have had on other cultures in Asia. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

HUM 125  Myth, Symbol, and the Arts
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)

Study of myth and folklore from a variety of cultures in order to see: (1) the function and role of myth in culture; (2) how mythic symbols work in literature and the arts; and, (3) how these symbols have a psychological and cultural relevance to people today. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

HUM 128  Art Field Trips
(1-4 units)(No prerequisite. Can be taken for credit as Humanities 128 or Art 128 or Ethnic Studies 128. However, credit will be awarded for only one discipline. Three-quarter lecture and three-quarter laboratory hours weekly for one unit, one and one-half lecture and one and one-half laboratory hours weekly for two units, two and one-quarter lecture and two and one-quarter laboratory hours weekly for three units, and three lecture and three laboratory hours weekly for four units.)

A complement to art history and studio art courses, this course allows students to experience the art and architecture of sites like New York, Mexico City, and Rome first-hand. Pretrip lectures will set up background for an intensive field trip(s) that may include visits to museums, galleries, libraries, artists’ studios, and to architectural and archeological sites where lecture, discussion, and personal exploration will take place. May be used to bring students to a major media-specific conference. Each discipline may be taken four times for credit. (CSU)

HUM 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

HUM 242  Global Writings
(3 units)(Prerequisite: English 120. Can be taken for credit as Humanities 242 or English 242. However, credit will be awarded for only one course. Three lecture hours weekly.)

The cultural diversity and complex histories of the nations composing the contemporary international world are revealed in a variety of forms of writings from the twentieth century. Discussion and analysis of representative texts focus on colonial exploitation, political domination, liberation, formations of racism, gender inequality, expressions of cultural power, ethnic conflict and division, immigration and migrancy, and processes of globalization. It is recommended for majors in International Relations. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

HUM 249  Directed Study
(1-3 units)(Limit to Enrollment: Successful completion of at least three units in humanities.)

A tutorial allowing the student to explore, through individual research, some intellectual problem or some academic area to be investigated in-depth. The student plans and executes a project under the direction of a faculty member willing to act as tutor and qualified to supervise within the academic area relevant to the student’s project. Evaluation is made through conferences and written reports; hours and number of reports are determined by the instructor in consultation with the student. May be taken more than once for credit. (CSU/UC w/limit)
ITALIAN COURSES

All Italian courses can be taken for a letter grade or credit/no credit.

In general, courses required for a transfer student’s four-year major should be taken on a letter grade basis.

ITAL 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

ITAL 100  Introduction to Italy and the Italian Language
(1 unit)(No prerequisite. Two lecture hours for eight weeks.)
Designed as a cultural adjunct to the grammar and conversational courses in Italian, this class will explore such varied topics as the history of Italy and its regions, the history of Italian opera, architecture, art “schools,” the evolution of Italian cooking, recipes used in individual regions and more. Each class session will contain a few phrases in simple Italian designed for the traveler. These will correspond with the presentation in the book and tape series, which will allow the student to approach self-mastery. Italian 100 can be taken concurrently with Italian 110 or 101 or can be used as a “pre-readiness” introduction to either of those two classes. A cultural reader will provide a structure for the cultural topics of basic phrases for the traveler. Especially recommended for students wishing to study aboard in Italy.

ITAL 101  Elementary Italian I
(5 units)(No prerequisite. Four lecture and three laboratory hours weekly.)
For beginners and for those who have had only one year of high school Italian. A beginning course which offers study and practice in speaking, understanding, reading, and writing Italian. Exploration of cultural aspects of the Italian people. The three-hour weekly laboratory requirement enhances the student’s verbal and comprehension skills through the use of audiovisual materials. Can also be offered in a distance learning format. (CSU/UC)
AA/AS Area C, CSU Area C-2, UC Language other than English

ITAL 102  Elementary Italian II
(5 units)(Prerequisite: Italian 101. Three lecture and three laboratory hours weekly.)
Further emphasis on the structure of the language, verbal communication, and understanding the Italian culture. Continued use of the language laboratory for further mastery of the language. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

ITAL 108  Italian Literature in Translation/Selected Topics
(1 unit)(No prerequisite. One lecture hour weekly.)
This class offers an intensive study of one literary era or selected work within Italian literature in any given semester or summer session. The class will be offered in English translation. Subjects of study change, but will include such topics as the following:
- “The Divine Comedy” by Dante Alighieri, and the Middle Ages;
- “The Prince”, by Niccolo’ Machiavelli, and the High Renaissance;
- The Literature of the Italian Resistance 1945-60;
- The Literature of Italian Feminism; and
- The Literary Theater of Nobel Prize Winner Dario Fo.
Check current schedules for particular topic offered. Italian 108 may be taken more than once for credit provided the same topic is not repeated. (CSU/UC)
AA/AS Area C (three units)

ITAL 110  Conversational Italian I
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
Use of modern colloquial Italian in conversation and the study of elementary grammar. Designed for students who wish to acquire skills of the spoken language with a minimum of formal grammar.
Oral practice in speaking and understanding Italian through the use of videos, audiocassettes, and other audiovisual packages related to class work. Use of audio materials depicting everyday situations for improving fluency and accuracy in pronunciation. Can also be offered in a distance learning format. (CSU)

ITAL 112  Conversational Italian II
(4 units)(Prerequisite: Italian 101 or 110. Three lecture and three laboratory hours weekly.)
Use of modern colloquial Italian in conversation and the study of elementary grammar. Designed for students who wish to acquire skills of the spoken language with a minimum of formal grammar.
Oral practice in speaking and understanding Italian with taped records, tape cassettes, and other audiovisual packages related to class work. Use of audio materials depicting everyday situations for improving fluency and accuracy in pronunciation. (CSU)

ITAL 114  Conversational Italian III
(4 units)(Prerequisite: Italian 102 or 112. Three lecture and three laboratory hours weekly.)
Continued use of modern colloquial Italian in conversation and the study of elementary grammar. Designed for students who wish to acquire skills of the spoken language with a minimum of formal grammar.
Continued oral practice in speaking and understanding Italian with taped records, tape cassettes, and other audiovisual packages related to class work. Use of audio materials depicting everyday situations for improving fluency and accuracy in pronunciation. (CSU)
ITAL 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w limit)

ITAL 203  Intermediate Italian III  
(5 units)(Prerequisite: Italian 102. Four lecture and three laboratory hours weekly.)  
In-depth study of the language with grammar review, composition, and introduction to literature. The language laboratory offers the use of audiovisual materials for improved fluency and accuracy in pronunciation as well as the presentation of cultural and literary topics. (CSU/UC)  
AA/AS Area C-2, IGETC Area 3B

ITAL 204  Intermediate Italian IV  
(4 units)(Prerequisite: Italian 203. Four lecture hours weekly.)  
Continuation of study and practice in speaking, understanding, reading, and writing Italian. Completion of review of Italian grammar, in-depth as well as readings in literature, history, and culture of the Italian people. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B, CAN ITAL 10

ITAL 225-226  Advanced Italian I and II  
(3-3 units)(Prerequisite: Italian 204. Three lecture hours weekly for each course.)  
Courses aimed at expanding the student's knowledge of the Italian language and civilization through the study of grammar and literature. Emphasis is placed on acquiring an advanced level of verbal expression, both in conversation and reading, and in written composition. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B

ITAL 249  Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU/UC w/limit)

JAPANESE COURSES

All Japanese courses can be taken for a letter grade or credit/no credit.  
In general, courses required for a transfer student's four-year major should be taken on a letter grade basis.

JPNS 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

JPNS 101  Elementary Japanese I  
(5 units)(No prerequisite. Four lecture and three laboratory hours weekly.)  
A beginning course which offers study and practice in speaking, understanding, reading and writing Japanese, along with an exploration of the cultural aspects of Japan and the Japanese. The weekly laboratory requirement enhances the students' verbal and listening comprehension skills through use of the audiovisual materials. Can also be offered in a distance learning format. (CSU/UC)  
AA/AS Area C, CSU Area C-2, UC Language other than English

JPNS 102  Elementary Japanese II  
(5 units)(Prerequisite: Japanese 101. Four lecture and three laboratory hours weekly.)  
Further emphasis is placed on the structure of the language, verbal communication, and understanding of Japanese culture. Continued use of the language laboratory for further mastery of the language. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B

JPNS 108  Japanese Conversation through the Movies  
(1 unit)(Prerequisite: Japanese 101. Two and one-quarter lecture hours weekly for eight weeks.)  
This class offers an intensive study of practical Japanese conversation in any given semester or summer session. The class is to be offered in English and Japanese. Subjects of study will change, but will include such topics as the following: Everyday conversation among in-groups (husband-wife, friend-friend, among the family), everyday conversation among out-groups (superior-inferior, among the unknowns), nonverbal communications, and culturally correct Japanese conversation. Check current schedule for particular focus offered. May be taken more than once for credit provided the same topic is not repeated. (CSU)  
AA/AS Area C (three units)

JPNS 110  Conversational Japanese I  
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)  
Use of modern colloquial Japanese in conversation and the study of elementary grammar. Designed for students who wish to acquire skills of the spoken language with a minimum of formal grammar.  
Oral practice in speaking and understanding Japanese through the use of videos, audio cassettes, and other audio visual packages. Use of audio materials improves accuracy and fluency in pronunciation. May also be offered in a distance learning format. (CSU)

JPNS 112  Conversational Japanese II  
(4 units)(Prerequisite: Japanese 101 or 110. Three lecture and three laboratory hours weekly.)  
Use of modern colloquial Japanese in conversation and the study of elementary grammar. Designed for students who want to learn at a faster pace in the spoken language with a minimum of formal grammar. Use of audio materials improves accuracy and fluency in pronunciation. (CSU)

JPNS 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)
This laboratory course gives students an opportunity to apply their knowledge in news writing and reporting, including qualities of good writing, summary and special leads, organizing a news story, quotations and attribution, interviewing, and gathering information. It also allows students to develop their knowledge and skills in the fundamentals of headlines, text, photos, and cutlines; story design; page design for a tabloid format; photos and art; packaging, including flags, standing heads, logos and signs, lift-out quotes, decks, bylines, credit lines, etc.; special effects; and infographics. Students in this course serve as the editorial board of the student newspaper. Together with students in Newspaper Production, they produce the student newspaper. Combinations of Journalism 122 and 123 may be taken a total of four times for credit. (CSU)

**JOUN 123  Newspaper Production**  
(2½ units) (No prerequisite. Seven and one-half laboratory hours weekly.)

This laboratory course gives students who wish to help produce the student newspaper, but who do not wish to be writers for the paper, an opportunity to develop their knowledge and skills in one specialty or gaining enhanced skills in another. Students will examine form, content, and consequences of mass media in our society. Designed for general education, career exploration, and introduction to literature. The language laboratory offers the use of audiovisual materials for improved fluency and accuracy in pronunciation as well as the presentation of cultural and literary topics. (CSU/UC)

**JOUN 124  Directed Study**  
(1-3 units) (Please see Directed Study category.) (CSU/UC w/limit)

**JOURNALISM COURSES**

**JOUN 39  Selected Topics (Nondegree Applicable)**  
(½-6 units) (Please see Selected Topics category.)

**JOUN 110  Introduction to Mass Communication**  
(3 units) (No prerequisite. Advisory: Social Science 125. Students may receive credit for Journalism 110 or Communications 110, but not for both courses. Three lecture hours weekly.)

A critical, historical survey of mass media from a humanities and social science perspective including print (newspapers, magazines, books), broadcast (radio and television), film, audio recording, images, news gathering and reporting, public relations, advertising, media rights and responsibilities, media ethics and impact, audience and feedback, cybermedia, and global media. Students will examine form, content, and consequences of mass media in our society. Designed for general education, career exploration, and consumer understanding of the interaction and influences among and between media and our culture. Can also be offered in a distance learning format. (CSU/UC)  
AA/AS Area C, CSU Area D-7, IGETC Area 4, CAN JOUR 4.

**JOUN 115  News Reporting/Writing**  
(3 units) (No prerequisite. Three lecture hours weekly.)

This lecture/discussion course introduces students to the modern media, including newspapers, wire services, television, radio, magazines, public relations, advertising, and photojournalism. The principal focus is on writing and reporting for newspapers. Major topics include information about the newsroom, ingredients of news, qualities of good writing, summary and special leads, organizing a news story, quotations and attribution, interviewing, gathering information, features, press releases, obituaries, weather, disaster and developing stories, press conferences and speeches, beats, advanced assignments, and legal and ethical ramifications of reporting. Skills in news writing and reporting are developed through writing stories for the student newspaper or other media. The goals of the course are to provide students with opportunities to develop knowledge and skills in news writing and reporting, and attitudes appropriate to news writers and reporters as well as consumers of mass media. (CSU)

**JOUN 117  Broadcast Journalism**  
(3 units) (No prerequisite. Three lecture hours weekly.)

This course is designed to introduce beginning broadcasters to writing news for broadcast and to refresh the skills of experienced news broadcasters who want to improve their styles. It is designed to give students an overview of news broadcasting and to encourage them to hone their skills and discover where they can adapt best to the process. The course covers the skills of writing, reporting, recording, photographing, editing, producing, and performing for broadcast. It also covers knowledge of the laws that affect broadcast news, and the cultivation of a sense of journalism ethics. (CSU)
JOUN 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

JOUN 160  Images of Women and Minorities in American Media  
(3 units)(No prerequisite. Can be taken for credit as Journalism 160 or Communications 160. However, credit will be awarded for only one course. Three lecture hours weekly.)

This is a course designed to help students understand the relationship between the stereotypical and predominant images of women and minorities that are portrayed in American media by the dominant white male culture, and how these images affect our perceptions of these groups. The course takes substantial account of African Americans, Asian Americans, Latino Americans, and Native Americans. It also studies women as a separate group. Students will analyze the stereotypical and predominant images of each group that are portrayed in motion pictures, radio, recorded music, and television by the dominant culture, and compare and contrast these images with the individual and subordinate images that each group portrays of itself. (CSU/UC) AA/AS Areas C & G, CSU Area C-2, IGETC Area 3B

JOUN 249  Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

LIBRARY COURSES

LIBR 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

LIBR 110  Introduction to Library Resources: A Self-Directed Approach  
(1 unit)(No prerequisite. Self-paced. No regularly scheduled class meetings. Completion of the course represents approximately Eighteen to thirty-six hours of academic work.)

A self-paced course that facilitates the use of the library and teaches the basic skills needed for library research. The resources studied and the skills learned are applicable to any library - academic, public or special. Information sources covered in this course include the card catalog; important reference works such as encyclopedias, dictionaries, and almanacs; periodicals, periodical indexes, and book reviews. Students may work on assignments whenever the college library is open, consulting with the instructor and other library faculty as needed. Enrollment is open through the first half of the semester. Recommended especially for students working on research projects for other classes. (CSU/UC)

LIBR 115  Library Research Methods  
(1 unit)(No prerequisite. Self-paced. Completion of the course represents approximately eighteen to thirty-six hours of academic work.)

A self-paced course in research methods and techniques for students who have already taken the introductory library course. Practice in the use of the more specialized reference books and periodical indexes. Concentrates on a methodology of research and on timesaving techniques. Students may work on assignments whenever the college library is open, consulting with the instructor and other library faculty as needed. Enrollment is open through the first half of the semester. (CSU/UC)

LIBR 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

LIBR 249  Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

MACHINE AND METALS TECHNOLOGY COURSES

MACH 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

MACH 90  Machine and Metals Careers: A Hands-On Workshop  
(1 unit)(No prerequisite. Two and one-half lecture hours and one laboratory hour weekly for six weeks.)

A lecture/demonstration and lab workshop course designed to acquaint students with the possibilities of the machine and metals trade as a career choice. Students will see demonstrations of lathes, milling machines, and assorted shop equipment, and will engage in hands-on machining. Women are especially encouraged to enroll.

MACH 97  Machine Trades Math  
(2 units)(No prerequisite. Two lecture hours weekly.)

A course designed to present the mathematical principles and operations necessary for successful involvement in the machine tool trades. Examples and exercises are taken directly from shop practices. May be taken three times for credit.

MACH 110  Machine Tool Technology I  
(6 units)(No prerequisite. Two lecture and twelve laboratory hours weekly.)

This course covers fundamental theory and application of machine shop tools and industrial power equipment. Students are introduced to bench work, floor work, assembly, precision measurement, and the properties of metallic materials. Technical study and practice in the use of lathes, drilling machines, grinders, saws, and milling machines are an integral part of this course. May be taken three times for credit. (CSU)
MACH 111  Machine Tool Technology II
(6 units)(Prerequisite: Machine and Metals Technology 110. Two lecture and twelve laboratory hours weekly.)
This course includes study and practice in the technology of metal machining, introduction to the design of machines and cutting tools, manufacture of machine parts requiring increased skills, theory of basic metallurgy, introduction to production processes and production machines. May be taken three times for credit. (CSU)

MACH 120  Machine Technology I
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)
A survey course in the principles of general machine shop processes utilizing lathes, milling machines, surface grinders and drilling machines; practice in general bench operations and the use of precision measuring and machining instruments. May be taken three times for credit. (CSU)

MACH 121  Machine Technology II
(2 units)(Prerequisite: Machine and Metals Technology 120. One lecture and three laboratory hours weekly.)
This course builds upon the fundamentals established in Machine and Metals Technology 120. Emphasizes the development of advanced machining techniques utilizing lathes, milling machines, grinders, and drilling machines. Perfecting manipulative skill, competency, and machine tool theory is stressed. May be taken three times for credit. (CSU)

MACH 130-131  Welding I and II
(2-2 units)(No prerequisite for Machine and Metals Technology 130. Machine and Metals Technology 130 is a prerequisite for Machine and Metals Technology 131. One lecture and three laboratory hours weekly.)
MACH 130. Fundamental theory and application of welding shop tools and power equipment. Introduction to oxy-fuel welding and cutting, manual shielded arc (stick), and welding in the flat and horizontal positions. Technical study and practice in the safe use of gases, grinders, torches, and arc welders. May be taken three times for credit. (CSU)
MACH 131. Introductory theory and application of the MIG, TIG, and Plasma processes. Advanced stick welding on plate in all positions. May be taken three times for credit. (CSU)

MACH 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)
MACH 221  Machine Tool Technology IV
(7 units) Prerequisites: Machine and Metals Technology 110, 111, and 220. Three lecture and twelve laboratory hours weekly.
Advanced practice and theory with special emphasis on planning, organization, production, assembly and quality control of machine parts and mechanisms. Special problems in heat treatment and properties of materials will be addressed. Cylindrical grinding, tool and die making, incorporating advanced production processes with CAD-CAM capabilities. May be taken three times for credit. (CSU)

MACH 230  Advanced Welding
(2 units) Prerequisite: Machine and Metals Technology 131. One lecture and three laboratory hours weekly.
Advanced theory and application of the MIG, TIG and Plasma processes. Preparation for plate certifications with the MIG and stick processes. May be taken three times for credit. (CSU)

MACH 240  Advanced Machine Tool Processes
(4 units) No prerequisite. Advisory: Machine and Metals Technology 140. Two lecture and six laboratory hours weekly.
An advanced level theory and practice of metal removal and fabrication course emphasizing advanced level practice on lathes, milling machines, surface grinders, and heat treating equipment. Theoretical considerations include precision measurement techniques, cutting tool technology, gearing, and nontraditional machining methods. Computer numerical control and CAD-CAM techniques will be discussed. May be taken four times for credit. (CSU)

MACH 249  Directed Study
(1-3 units) Limit to Enrollment: Completion of Machine and Metals Technology 111 and/or 116. Prior arrangement with the instructor is necessary.
This course is designed to provide machine tool majors with an opportunity for independent study. The student plans a project or program (APT) under the guidance of a machine tool instructor and completes it in the laboratory. Evaluation is through conference and joint critique of the entire independent study process. May be taken more than once for credit. (CSU w/limit)

MACH 250  Applications of Machine Tool Technology
(2 units) No prerequisite. Six laboratory hours weekly.
Advanced laboratory practice for students pursuing certification in machine and metals technology. Projects involve state-of-the-industry techniques. May be taken four times for credit. (CSU)

MATHEMATICS COURSES
The College of Marin offers a mathematics assessment testing service to help students make informed decisions when enrolling in mathematics courses. The students are provided their test scores. Students registering for mathematics courses who need help in interpreting their placement test scores, and/or in deciding whether to register for or remain enrolled in a mathematics course, can seek assistance from a counselor or their mathematics instructor.
For information about the Mathematics Assessment Test, students can call the Testing Office at (415) 485-9469 (located in the Student Services Center, Room 238, Kentfield Campus) or (415) 883-2211, ext. 8510 (Indian Valley Campus).
Letter grade or credit/no credit — All courses

BASIC SKILLS COURSES

MATH 25  Coping with Math Anxiety
(½ unit) No prerequisite. Two lecture hours weekly for four weeks.
A four-week course designed to help all students from all areas confront and deal with their fears and anxieties with mathematics.

MATH 39  Selected Topics (Nondegree Applicable)
(½-6 units) Please see Selected Topics category.

MATH 90  Math Skills Open Laboratory
(3 units) No prerequisite. Corequisite: Concurrent enrollment in any math course. One and one-half to three laboratory hours weekly.
A course in which students develop skills for completing assignments from lecture or laboratory portions of such courses as Math 95, 95AB, 101, 101AB, 101XY, 102G, 103, 103XY, 115. This course develops number sense, mental arithmetic skills, emphasizing arithmetic manipulations with fractions, and solving problems. May be taken four times for credit.

MATH 95  Basic and Intermediate Math Skills
(2 units) No prerequisite. Three lecture hours weekly.
This course covers addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals; square roots, percents, and applications of arithmetic to include ratio and proportion; some pre-algebra topics; and measurement to include area and volume. Can also be offered in a distance learning format.
MATH 95A-95B  Basic and Intermediate Math Skills

(1-1 unit)

A sequence of two one-unit modules equivalent to Math 95. The instructional method for this sequence is individualized and self-paced, and consists of small group lectures, in-class tutoring, and repeatable mastery level testing. Each module may be entered at any time during the semester. A diagnostic test may determine placement into the sequence. Each one unit course in this individualized/self-paced program is considered to take an average of eight weeks or until the course is completed. Attendance for an average of four hours per week in the Math Lab is required.

MATH 95A  Basic Math Skills

(1 unit)(No prerequisite. An average of four hours weekly in the Math Lab for eight weeks or until the course is completed.)

Addition, subtraction, multiplication, division, square roots, prime numbers, greatest common divisors, and least common multiples; the arithmetic of whole numbers, fractions and decimals will be used in applied problems. Ratio and proportion to include applications.

MATH 95B  Intermediate Math Skills

(1 unit)(Prerequisite: Math 95A or satisfactory score on Math Assessment Test. An average of four hours weekly in the Math Lab for eight weeks or until the course is completed.)

This course will cover percent; elementary statistics to include averages and graphs; measurement to include length, area and volume; pre-algebra and applications.

MATH 95E, G, K, L  APPLIED ARITHMETIC

A set of modular courses designed to refresh or develop arithmetic and calculation skills to prepare students for science, business, or vocational training programs. Each module may be entered at any time during the semester and consists of small group lectures, individualized and self-paced study, in-class tutoring, and repeatable mastery level testing. Any number of these courses may be taken in any semester, depending on each student's choice and pace. Each one unit course in this individualized/self-paced program is considered to take approximately eight weeks or until the course is completed. Attendance for an average of four hours per week in the Math Lab is required.

Courses in the program:

MATH 95E  Automotive Technician Applications

(1 unit)(Prerequisite: Math 95B or satisfactory score on Math Assessment Test. An average of four hours weekly in the Math Lab for eight weeks or until the course is completed.)

Fractions and decimals applied to revolutions per minute, piston displacement, tolerance, clearance, wear, and expansion problems. Ratio and proportion applied to compression ratio, gear ratio, rear axle ratio, and air-fuel mixture ratio problems. Percent applied to engine efficiency. Graphs. The metric system.

MATH 95G  Medical Assisting Applications

(1 unit)(No prerequisite. An average of four hours weekly in the Math Lab for eight weeks or until the course is completed.)

The apothecary system of units, the household system, the metric system, conversions from one system to another in the preparation of dosages. Ratio, proportion, and percent in the preparation of solutions. Applied problems.

MATH 95K  Investigative Geometry I

(1 unit)(Prerequisite: Math 95B or satisfactory score on Math Assessment Test. May be enrolled concurrently with Math 95L. An average of four hours weekly in the Math Lab for eight weeks or until the course is completed.)

An exploration of the basic ideas and relationships of plane geometry. Some abstract concepts are investigated by use of manipulative materials such as geoboards, mirrors, rulers, compasses, and models. Topics include lines, planes, angles, polygons, perimeter, area, and Pythagorean Theorem.

MATH 95L  Investigative Geometry II

(1 unit)(Prerequisite: Math 95K. May be enrolled concurrently in Math 95K. An average of four hours weekly in the Math Lab for eight weeks or until the course is completed.)

Further exploration of the basic ideas and relationships of plane and solid geometry. Some abstract concepts are investigated by use of manipulative materials such as geoboards, mirrors, rulers, compasses, and models. Topics include symmetry, congruence, similar polygons, circles, polyhedra, circumference, area, volume, and surface area.

MATH 97  Basic Math Skills for Automotive Technology

(3 units)(No prerequisite. Three lecture hours weekly.)

This course will include addition, subtraction, multiplication and division of whole numbers, fractions, decimals and percent. Also included are ratio and proportion; metric system, graphs and applications specific to automotive technology. Offered only in the spring semester of every other year.

COLLEGE LEVEL COURSES
NONTRANSFERABLE

MATH 101  Elementary Algebra

(3 units)(Prerequisite: Math 95 or 95B. Five lecture hours weekly.)

An introduction to elementary algebra. Topics will include linear equations, inequalities, systems with applications, polynomials, rational expressions, exponents, roots, radicals, and quadratic equations. Can also be offered in a distance learning format.

AA/AS Math Proficiency = Math 101A + 101B
MATH 101A-101B  Elementary Algebra I, II
(1½ - 1½ units) A sequence of two, one and one-half unit modules equivalent to Math 101.

MATH 101A  Elementary Algebra I
(1½ units) (Prerequisite: Math 95 or 95B. Five lecture hours weekly.)
An introduction to elementary algebra. Topics include linear equations and inequalities, slope of lines, linear graphs, and systems of equations. Taken with Math 101B this course is equivalent to Math 101. It is designed for the student who wishes to take more time to learn elementary algebra.

MATH 101B  Elementary Algebra II
(1½ units) (Prerequisite: Math 101A. Five lecture hours weekly.)
A continuation of elementary algebra. Topics will include polynomials, rational expressions, exponents, roots, radicals and quadratic equations. Taken with Math 101A this course is equivalent to Math 101. It is designed for the student who wishes to take more time to learn elementary algebra.

MATH 101X-101Y  Elementary Algebra
(1½ - 1½ units) A sequence of two, one and one-half unit modules equivalent to Math 101. The instructional method for this sequence is individualized and self-paced. In-class tutors will be available to assist students.

MATH 101X  Elementary Algebra
(1½ units) (Prerequisite: Math 95 or 95B or satisfactory score on Math Assessment Test. Corequisite: Math 101A or 101B. Two laboratory hours weekly.)
An introduction to elementary algebra. Topics will include linear equations, inequalities, systems with applications, polynomials, rational expressions, exponents, roots, radicals and quadratic equations. May be taken four times for credit.

MATH 101Y  Elementary Algebra
(1½ units) (Prerequisite: Math 101. Five lecture hours weekly.)
A continuation of elementary algebra. Topics will include linear equations and inequalities, slope of lines, linear graphs, and systems of equations. Operations with radicals, operations on integers and rational numbers, solving equations and inequalities, slope of lines, linear graphs, and systems of equations. Taken with Math 101B this course is equivalent to Math 101. It is designed for the student who wishes to take more time to learn elementary algebra.

AA/AS Math Proficiency = Math 101A + 101B

MATH 102G  Geometry
(3 units) (Prerequisite: Math 101 or 101XY. Three lecture hours weekly.)
Methods of deductive reasoning. A study of lines, planes, triangles, circles, polygons and polyhedrons. Includes investigation of the Pythagorean theorem, similar triangles, and geometric solids. This course is strongly recommended for math, science, and engineering students planning to take trigonometry or calculus.

MATH 103  Intermediate Algebra
(5 units) (Prerequisite: Math 101 or 101XY. Five lecture hours weekly.)
This course is an extension of many of the concepts introduced in elementary algebra. The real number properties, polynomials, rational expressions, first degree equations, inequalities and applications, exponents, radicals, quadratic equations and complex numbers are treated in greater detail. In addition, functions and their graphs, systems of equations and inequalities, matrices, linear programming, exponential and logarithmic functions will be covered.

This course will satisfy the prerequisite for Math 121. This course will be offered in the Math Lab (individualized mode) as well as the lecture/discussion mode. Can also be offered in a distance learning format.

AA/AS Area E

MATH 103G  Mathematics in the World
(5 units) (Prerequisite: Math 101 or 101XY or 101AB. Five lecture hours weekly.)
This course is an intermediate algebra equivalent course for students majoring in social science, behavioral science, liberal arts, fine arts or performing arts. Topics are selected from logic, problem solving, number systems, consumer mathematics, algebra, geometry and probability.

MATH 103S  Intermediate Algebra
(4 units) (Prerequisite: Math 101 or 101XY or satisfactory score on Math Assessment Test. Four lecture hours weekly.)
This course is designed for nonmathematics students who need only Math 115 to fulfill their mathematics transfer requirement. Physical science students planning on taking Math 104, 105 and one of the calculus sequences should not take Math 103S; they must take Math 103.

This course is an extension of many of the concepts introduced in elementary algebra. The real number properties, polynomials, rational expressions, first degree equations, inequalities and applications, exponents, radicals and quadratic equations. Functions and their graphs (linear and quadratic), systems of equations and a light treatment of exponential and logarithmic functions. Emphasis is on verbal problem solving.

Students who have completed Math 103 or Math 103XY are not eligible for credit in Math 103S. This course satisfies the prerequisite for Math 110 and Math 115.
MATH 103X-103Y  Intermediate Algebra
(2,3 units)A sequence of two modules equivalent to Math 103. The instructional method for this sequence is individualized and self-paced. In-class tutors will be available to assist students.

103X. Intermediate Algebra. (2)
(Prerequisite: Math 101 or 101XY or satisfactory score on Math Assessment Test. May be enrolled concurrently with Math 103Y. An average of six hours weekly in the Math Lab for eight weeks or until the course is completed.)

Properties of the real number system, linear equations, inequalities, polynomials, factoring, rational expressions, exponents, radicals, equations and applications, and complex numbers.
AA/AS Area E

103Y. Intermediate Algebra. (3)
(Prerequisite: Math 103X or concurrent enrollment. An average of six hours weekly in the Math Lab for eight weeks or until the course is completed.)

Quadratic, radical and quadratic form equations; relations, functions, inverses and their graphs; graphs and equations of lines and circles, systems of equations and inequalities; matrices and linear programming; exponential and logarithmic functions; applications.
AA/AS Area E

COLLEGE LEVEL COURSES
TRANSFERABLE

MATH 104  Plane Trigonometry
(3 units)(Prerequisite: Math 103 or 103XY or satisfactory score on Math Assessment Test. Condition for enrollment: Calculator with trigonometric function keys required. Three lecture hours weekly.)

Trigonometric and inverse trigonometric functions; graphs, equations and identities involving the trigonometric functions; triangle solutions, vector applications, and DeMoivre’s Theorem. Can also be offered in a distance learning format. (CSU)
AA/AS Area E, CSU Area B-4, CAN MATH 8

MATH 104X-104Y  Plane Trigonometry
(1½ - 1½ units)A sequence of two, one and one-half unit modules equivalent to Math 104. The instructional method for this sequence is individualized and self-paced.

In-class tutors will be available to assist students. (Calculator with trigonometric function keys required.)

104X. Plane Trigonometry
(1½ units)(Prerequisite: Math 103 or 103XY or satisfactory score on Math Assessment Test. An average of four hours weekly in the Math Lab for eight weeks or until the course is completed.)

Solving trigonometric equations, Law of Sines and Cosines to solve triangles, vector applications, DeMoivre’s Theorem, and polar coordinates. (CSU)
AA/AS Area E, CSU Area B-4

MATH 105  College Algebra
(4 units)(Prerequisite: Math 103 or 103XY. May be taken concurrently with Math 104 or 104XY. Four lecture hours weekly.)

This course includes an introduction to the elementary logic necessary for understanding mathematical proofs; emphasis on functions and graphs (both algebraic and transcendental); polynomial equations and their roots, solutions of inequalities (including absolute values); introduction to sequences, series, and conic sections. (CSU/UC)
AA/AS Area E, CSU Area B-4, IGETC Area 2

MATH 109  Pre-Calculus College Algebra and Trigonometry
(5 units)(Prerequisite: Satisfactory score on Math Assessment Test or a grade of C or higher in Math 103 or Math 103XY. Five lecture hours weekly.)

This class is an intensive combined course in pre-calculus algebra and trigonometry intended to prepare students for calculus. Topics include: polynomial, rational, exponential, logarithmic and trigonometric functions. Also, the binomial theorem, arithmetic and geometric sequences and series, mathematical induction, trigonometric identities, polar coordinates, the conic sections, vectors and applications of right angle trigonometry. Calculator with trig function keys required. (CSU)
AA/AS Area E, CSU Area B-4

MATH 110  Introduction to Mathematical Reasoning
(3 units)(Prerequisite: Math 103 or 103S or 103XY. Three lecture hours weekly.)

An elementary introduction to mathematics based on work in intermediate algebra and emphasizing the deductive process in concepts of contemporary mathematics. This course is primarily for liberal arts students. Topics may include logic, set theory, mathematics of finance, linear programming, combinatorial modeling, graph theory, exponential functions, logarithmic functions, group theory, and game theory. An introduction to the computer using BASIC or Logo computer languages may also be used. This course is designed to fulfill the intermediate algebra-based mathematics requirement for the California State University system. (CSU)
AA/AS Area E, CSU Area B-4, CAN MATH 2
MATH 114  Finite Mathematics
(3 units)(Prerequisite: Math 103 or 103XY or satisfactory score on Math Assessment Test. Three lecture hours weekly.)
An introduction to various mathematical models and techniques used in business, management, and the social sciences. Topics include matrix methods for solving systems of linear equations, matrix algebra, linear programming, the simplex method, sets and counting techniques, and probability theory. Applications include the Leontief input-output model, Markov chains, game theory, and the mathematics of finance. (CSU/UC)
AA/AS Area E, CSU Area B-4, IGETC Area 2

MATH 115  Probability and Statistics
(4 units)(Prerequisite: Math 103 or 103G or 103XY or satisfactory score on Math Assessment Test. Four lecture hours weekly. Formerly Math 15 at College of Marin and Math 115 at Indian Valley College.)
Descriptive statistics, introduction to probability theory, probability distributions, data sampling, estimation, correlation, hypothesis testing. Can also be offered in a distance learning format. (CSU/UC)
AA/AS Area E, CSU Area B-4, IGETC Area 2, CAN STAT 2

MATH 116  Linear Algebra
(3 units)(Prerequisite: Math 123. Three lecture hours weekly.)
The study of systems of linear equations, matrix algebra, vector spaces, inner product spaces, linear transformations, eigenvalues and eigenvectors, and applications. Recommended for mathematics majors or students who plan to study mathematics in-depth in association with other majors. (CSU/UC)
AA/AS Area E, CSU Area B-4, IGETC Area 2, CAN MATH 26

MATH 117  Discrete Mathematics
(3 units)(Prerequisite: Math 121 or 123. Also offered as Computer Science 117. Students may receive credit for Computer Science 117 or Math 117 but not for both courses. Three lecture hours weekly.)
A survey of topics including set theory, combinatorics, graph theory, algorithms, logic, Boolean algebra, formal languages, and probability theory. Recommended for mathematics majors and students interested in engineering and applied fields. (CSU/UC)
CSU Area B-4, IGETC Area 2

MATH 121-122  Calculus I and II with Applications
(3-3 units)This course is designed to satisfy the calculus requirement for agriculture, architecture, business administration, botany, economics, forestry, physical geography, premedicine, optometry, pharmacy, and physiology majors. It is not designed for students majoring in chemistry, engineering, mathematics, or physics. Biology majors should check with transfer college for calculus requirement (Math 121 or 123).

MATH 121  Calculus I with Applications
(3 units)(Prerequisite: Math 103 or 103XY or satisfactory score on Pre-Calculus Assessment Test. Three lecture hours weekly.)
Topics will include limits, continuity, derivatives, integrals, exponential, and logarithmic functions. Standard applications of the derivative to drawing graphs of functions of one real variable and to optimization problems will be included. Business applications of profit maximization and consumer/producer surplus will be covered. (CSU/UC)
AA/AS Area E, CSU Area B-4, IGETC Area 2, CAN MATH 30, CAN MATH SEQ D = Math 121 + 122

MATH 122  Calculus II with Applications
(3 units)(Prerequisites: Math 104 or 104XY and Math 121 or satisfactory score on Trigonometry Placement Test. Three lecture hours weekly.)
Topics will include multivariable calculus, partial derivatives, double integrals, methods of integration, the calculus of trigonometric functions, first order ordinary differential equations, calculus applied to probability and statistics, infinite series, and applications. (CSU/UC)
CAN MATH 32, CAN MATH SEQ D = Math 121 + 122

MATH 123  Analytic Geometry and Calculus I
(5 units)(Prerequisites: Math 104 or 104XY and Math 105 or satisfactory score on Pre-Calculus Placement Test and Trigonometry Placement Test. Five lecture hours weekly.)
Introduction to differential and integral calculus of functions of one real variable. Continuous functions, limit of a function at a point, the derivative. The differentiation formulas and rules for one variable functions, implicit differentiation. The mean value theorem and its application to optimization and curve sketching, linear approximation and differential notation. Introduction to the Riemann integral and the fundamental theorem of calculus. Applications of the Riemann integral to finding areas, volumes of solids of revolutions, work, centroids, and total force on a plane submerged in a fluid. (CSU/UC)
AA/AS Area E, CSU Area B-4, IGETC Area 2, CAN MATH 18, CAN MATH SEQ B = Math 123 + 124, CAN MATH SEQ C = Math 123 + 124 + 223

MATH 124  Analytic Geometry and Calculus II
(5 units)(Prerequisite: Math 123. Five lecture hours weekly.)
A continuation of Math 123 to include the inverse function theorem for functions of one real variable, derivatives of inverse trigonometric, exponential, logarithmic, hyperbolic and inverse hyperbolic functions. Introduction to first order ordinary differential equations, techniques of integration, improper integrals, indeterminate forms, sequences, series, power series functions, and the calculus of parameterized plane curves. (CSU/UC)
AA/AS Area E, CSU Area B-4, IGETC Area 2, CAN MATH 20, CAN MATH SEQ B = Math 123 + 124, CAN MATH SEQ C = Math 123 + 124 + 223
MATH 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

MATH 199  Seminar for Tutors  
(2 units)(No prerequisite. One lecture hour and three laboratory hours weekly.)
This course is designed to help student tutors develop their understanding of the principles of effective mathematics tutoring. Students will learn how to recognize different learning styles so that they may better help others analyze their study habits and problem solving skills. Students will learn how to communicate more effectively and to provide an encouraging tutoring environment. (CSU)

MATH 223  Analytic Geometry, Vector Analysis, and Calculus III  
(5 units)(Prerequisite: Math 124. Five lecture hours weekly.)
A continuation of Math 124 to include solid analytic geometry, vector-valued functions, partial derivatives, multiple integrals, and vector analysis including Green's, Stoke's, and divergence theorems. (CSU/UC)
CSU Area B-4, IGETC Area 2, CAN MATH 22, CAN MATH SEQ C = Math 123 + 124 + 223

MATH 224  Elementary Differential Equations  
(4 units)(Prerequisite: Math 124. Advisory: Concurrent enrollment in Math 223 recommended. Four lecture hours weekly.)
Elementary theory of differential equations including first order equations, second and higher order linear equations, the methods of power series, and Laplace transforms; first order linear systems, numerical methods, partial differential equations, Fourier series, and boundary value problems. (CSU/UC)
CSU Area B-4, IGETC Area 2, CAN MATH 24

MATH 249  Directed Study  
(1-3 units)(No prerequisite. One to three hours weekly.)
This course is designed to give the student an opportunity for directed study. Prior arrangement with the instructor is necessary. May be taken more than once for credit. (CSU/UC w limit)

MEDICAL ASSISTING COURSES

MEDA 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

MEDA 100  Introduction to Health Careers  
(2 units)(No prerequisite. Can be taken for credit as Dental Assisting 100, Health Education 100, Medical Assisting 100, or Nursing Education 100. However, credit will be awarded for only one course. Two lecture hours weekly.)
This course is designed for students interested in pursuing a career in a health profession. It provides an overview of the current health care delivery system, the physical, mental, and emotional demands of the workplace and the skills needed by the healthcare worker today and in the future. Students will learn about qualifications and professional preparation needed for various careers and analyze the roles and responsibilities in today's health care environment. This course is designed to help students develop realistic career goals as well as to give an appreciation of how the current health care delivery system is influencing individual health professional roles and responsibilities.

MEDA 110  Administrative Medical Office Procedures  
(2 units)(No prerequisite. Corequisite: Medical Assisting 110L. Two lecture hours weekly.)
This course is an introduction to the medical front office with an emphasis on front office procedures. Topics for examination include medical practice settings, medical law and ethics, reception, telephone, appointments, patient records etc. (CSU)

MEDA 110L  Administrative Medical Office Procedures Laboratory  
(1 unit)(No prerequisite. Corequisite: Medical Assisting 110. Three laboratory hours weekly.)
The student will apply theoretical concepts to practice administrative skills commonly performed in the medical office such as telephone techniques, appointment scheduling, office reception etc. (CSU)

MEDA 112  Medical Transcription  
(2 units)(Prerequisites: Business Office Systems 120 and Medical Assisting 120 or 121. One lecture and three laboratory hours weekly.)
This course includes the fundamentals of medical transcription using electric typewriters and selected types of transcription machines; ethical/legal responsibilities of the medical transcriber; continued study and application of medical terminology; transcription of medical forms, reports, and correspondence common to various medical/surgical specialties. (CSU)
MEDA 120  Medical Terminology I
(3 units)(No prerequisite. May be taken before or after Medical Assisting 121. Three lecture hours weekly.)

This course introduces the student to the fundamentals of medical word building, as well as terms related to specific body systems: Skin, musculoskeletal, respiratory, gastrointestinal, cardiovascular, and nervous. Emphasis is placed upon spelling, and anatomical, pathological, surgical, and diagnostic terminology. (CSU)

MEDA 121  Medical Terminology II
(3 units)(No prerequisite. May be taken before or after Medical Assisting 120. Three lecture hours weekly.)

This is a course in medical word building and analysis of terminology relating to the female and male reproductive systems, maternal, urogenital, eye, ear, neurological, and endocrine systems. In addition there are supplementary terms with special emphasis upon spelling and anatomical, diagnostic, surgical, and pathological terminology. (CSU)

MEDA 125  Medical Financial Procedures
(1 unit)(No prerequisite. Corequisite: Medical Assisting 125L. One lecture hour weekly.)

This theory course examines the basic financial operations and procedures of a medical office. Topics for examination include accounting, banking, bookkeeping, current procedural terminology, international classification of diseases, health insurance claims, managed care and government sponsored health insurance programs. (CSU)

MEDA 125L  Medical Financial Procedures Laboratory
(1½ units)(No prerequisite. Corequisite: Medical Assisting 125. Three laboratory hours weekly.)

The student will develop skills in managing patient financial accounts in a medical office. Practice will be given to posting financial information to a patient’s medical record, coding procedures and diagnoses, and completing medical insurance forms. (CSU)

MEDA 126  Medical Office Computers - MediSoft
(2 units)(No prerequisite. Corequisite: Medical Assisting 126L. Two lecture hours weekly.)

This course will introduce the student to the use of computers in the medical office. The course will focus on the basic functions of the MediSoft program such as recording patient information, entering transactions, scheduling appointments, and completing insurance claims. (CSU)

MEDA 126L  Medical Office Computers – MediSoft Laboratory
(½ unit)(No prerequisite. Corequisite: Medical Assisting 126. One and one-half laboratory hours weekly.)

This laboratory course will provide hands-on computer experience with the MediSoft software program. The student will apply theory learned in Medical Assisting 126. (CSU)

MEDA 127  Medical Office Computers – Medical Manager
(1 unit)(No prerequisite. Corequisite: Medical Assisting 127L. One lecture hour weekly.)

This course will introduce the student to the use of computers in the medical office. The course will focus on the basic functions of the Medical Manager software program such as recording patient information, entering transactions, and completing insurance claims. (CSU)

MEDA 127L  Medical Office Computers Laboratory – Medical Manager
(½ unit)(No prerequisite. Corequisite: Medical Assisting 127. One and one-half laboratory hours weekly.)

This laboratory course will provide hands-on computer experience with the Medical Manager software program. The student will apply theory learned in Medical Assisting 127. (CSU)

MEDA 135  Clinical Procedures I
(2 units)(No prerequisite. Corequisite: Medical Assisting 135L. Two lecture hours weekly.)

This course includes clinical assisting techniques and procedures common to primary care in a family practice medical office. Those involve assisting with complete and selected specialty exams; the taking of vital signs; sterilization and disinfection; assisting with minor office surgery; medical office emergencies; visual acuity; and promoting tissue healing through selected physical therapy procedures. Concentration will be on medical asepsis and infection control involving all procedures. (CSU)

MEDA 135L  Clinical Procedures I Laboratory
(1½ units)(No prerequisite. Corequisite: Medical Assisting 135. Four and one-half laboratory hours weekly.)

This performance-based course prepares the student to perform selected, clinical skills required of an entry-level, clinical medical assistant by a medical family practitioner. Procedures covered are hand washing, taking vital signs, positioning and draping, testing visual acuity, preparing articles for autoclaving, autoclaving, aseptic technique, opening sterile pack and other sterile items, pouring solutions, applying sterile gloves, identification of instruments, application of dressings and bandages, assisting with a gynecological exam and Pap smear. (CSU)
MEDA 136   Medical Laboratory Procedures  
(2½ units)(No prerequisite. Corequisite: Medical Assisting 136L. Two and one-half lecture hours weekly.)

This theory course includes examination of selected, common screening laboratory and clinical procedures performed in medical offices. Topics for examination include EKGs, hematology, urinalysis, collection of specimens, assisting with prenatal exams and radiology, and diagnostic imaging. Asepsis and universal precautions will be stressed. (CSU)

MEDA 136L    Medical Laboratory Procedures Laboratory  
(1 unit)(No prerequisite. Corequisite: Medical Assisting 136. Three laboratory hours weekly.)

The student will develop skills in performing common laboratory procedures and diagnostic tests required of medical assistants as performed in a medical office or clinic (i.e. hemoglobin, hematocrit, EKGs, urinalysis). Lab safety and universal precautions will be stressed. (CSU)

MEDA 139   Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

MEDA 141   Phlebotomy Techniques  
(3 units)(No prerequisite. Corequisite: Medical Assisting 141L. Advisory: Medical Assisting 136. Other limitations on enrollment: High School graduation or GED or equivalent. Three lecture hours weekly for ten weeks.)

This course is designed to provide students with specific knowledge of the role of the phlebotomist, blood collection procedures, the proper use of equipment, and techniques necessary to perform capillary (skin) punctures and venipunctures. Basic anatomy and physiology, safety, legal, and ethical issues are discussed in detail. Students are eligible for State and National certification as phlebotomists upon successful completion of Meda 141 and Meda 141L. (CSU)

MEDA 141L   Phlebotomy Techniques Practicum  
(1 unit)(No prerequisite. Corequisite: Medical Assisting 141. Advisory: Medical Assisting 136L. Other limitations on enrollment: High School graduation or GED or equivalent. Five laboratory hours weekly for ten weeks.)

This course is designed to fulfill CCR requirements for the practical component of phlebotomy certification as a CPT 1. Students will perform capillary punctures and venipunctures in a clinical setting under direct supervision of instructor and laboratory/clinic personnel. Successful completion of Meda 141 and 141L will qualify the student for certification as a phlebotomist (CPT 1). Clinical facilities require background checks, liability insurance, lab coat, name tag and patch, completed health clearance form, and negative TB test. Students must purchase malpractice insurance through the department during the first week of class, and submit a completed Health Clearance form. (CSU)

MEDA 145   Holistic Health, Disease, and Research  
(2 units)(No prerequisite. Two lecture hours weekly.)

Technology has made major advances in modern medicine. Primary care providers admit that the most sophisticated medical care may fail if the patient, as well as the disease, is not part of the treatment protocol. The course focuses on human disease and illnesses frequently diagnosed and treated in the medical office, the likely consequences for the person experiencing it, and the related research. Holistic medicine looks at the relationship between the mind-body connection and its influence upon health. May be taken twice for credit. (CSU)

MEDA 150   Pharmacology for Medical Assistants  
(1½ units)(No prerequisite. One and one-half lecture hours weekly.)

This course introduces the student to common drugs and medication, specific mathematical computations, drug indications and contraindications, anaphylactic and other allergic responses, care of emergencies due to drug reactions, and responsibilities of the medical assistant. May be taken twice for credit. (CSU)

MEDA 210L    Clinical Externship  
(2½ units)(Prerequisites: Medical Assisting 110, 110L, 120 or 121, 135, 135L are prerequisites for the Clinical and Administrative Option. Medical Assisting 120 or 121, 135, 135L are prerequisites for the Clinical Option. Medical Assisting 110, 110L, 120 or 121 are prerequisites for the Administrative Option. One hundred and twenty hours of externship to be arranged.)

This experience extends the student’s education and preparation from the classroom to the community clinic, office or hospital under the direct supervision of the instructor and clinical supervisors. Students are required to have had a physical examination and received a health clearance in addition to the required immunizations. First Aid and CPR certificates, liability insurance, and uniform are required. (CSU)

MEDA 249   Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU w/limit)
MULTIMEDIA STUDIES COURSES

MMST 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

MMST 90  Multimedia Studies Program Orientation/Multimedia Careers
(½ unit)(No prerequisite. Two lecture hours and one laboratory hour weekly for four weeks.)

This course will provide a general introduction and familiarization of the COM Multimedia Studies Program and the local media industry. Lecture and lab components will cover basic computer skills required for entry into the Career Certificate program, an orientation to the lab facilities and other program resources. It will also cover career information including industry salaries, job titles and requisite skills, employment trends, and other relevant occupational information about this dynamic field.

MMST 101  Orientation to Multimedia
(½ unit)(No prerequisite. Three practicum hours weekly for eight weeks.)

Digital media is becoming the predominant method for receiving news and entertainment. This course will cover the tools and techniques needed to become literate in this new digital media universe. Armed with the knowledge and skills learned in the course, students will be able to safely and effectively find and consume the tremendous amount of digital media now available in many formats and delivery platforms. This course is offered as a self-paced Web-based course. May be taken once for credit. (CSU)

MMST 110  Introduction to Multimedia
(3 units)(No prerequisite. Three lecture hours weekly.)

This course will provide an overview of the burgeoning new field of multimedia. Through lecture and demonstration, students will learn about basic multimedia production as well as topics that include design, development, and marketing. Students will survey basic concepts and applications of multimedia production. Providing an aesthetic and historical framework, this course is the logical first step on the path to a career in multimedia. (CSU)

MMST 111  Multimedia Production
(3 units)(No prerequisite. Advisory: Art 112. Two and one-half lecture and two and one-half laboratory hours weekly.)

This course is an opportunity for students to explore the different aspects and content of multimedia projects. Students will be introduced to team development and production schedules as they learn the basic tools and methods for developing graphics, sound, video and authored environments that simulate real-life projects and deadlines. Can also be offered in a distance learning format as a Web based course. (CSU)

MMST 112  Multimedia Interface Design
(3 units)(No prerequisite. Three lecture hours weekly.)

This course will provide a basic knowledge of interface design as it applies to multimedia. Emphasis will be on developing interfaces in an evolving art that requires a broad set of both technical and aesthetic skills. There will be broad exposure to predominant interface design theories. (CSU)

MMST 114  Introduction to Game Design
(3 units)(No prerequisite. Three lecture hours per week.)

This course will introduce students to the basics of game design and theory using analysis, research, critiques and group based projects. Students will learn about the Game Industry and what is expected to develop an interactive/video game through assignments that stimulate employment by a game developer. (CSU)

MMST 123  Introduction to Multimedia Design
(3 units)(No prerequisite. Advisory: Art 112. Two and one-half lecture and two and one-half laboratory hours weekly.)

This course will provide a basic knowledge of design as it applies to multimedia. Assignments involve the creation of original work using current digital tools. Design skills will be developed through projects using analysis, research, and critiques. Can also be offered in a distance learning format as a Web Based course. (CSU)

MMST 124  3-D Modeling and Animation
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

This course will provide introductory knowledge and experience with modeling and animation as it applies to multimedia. Modeling is the computer generation of a wide range of object types from machine components to organic forms. Animation is the creation of three-dimensional objects and environments from the imagination of the creator. (CSU)

MMST 131  Introduction to Web Design
(3 units)(No prerequisite. Advisory: Multimedia Studies 101. Two and one-half lecture and two and one-half laboratory hours weekly.)

This course provides an introduction to the tools and practices of modern Web site development. Students will learn the tools and methods for creating and maintaining a small media-rich web site. Production skills will be developed through the research, design, and development and testing of their own small web site. This course is also offered as a Web Based course. May be taken once for credit. (CSU)
MMST 132  Introduction to Web Development
(3 units)(No prerequisite. Advisory: Multimedia Studies 131. Two and one-half lecture and two and one-half laboratory hours weekly.)

This course will provide a basic knowledge for creating and publishing small sites to the World Wide Web. Assignments involve creating and publishing small working web sites containing a variety of rich media such as animation, audio and video. Web pages will be designed and developed using current professional-level tools. Design skills will be developed through projects using analysis, research, and critiques. Offered as a Web Based Course. May be taken once for credit.

MMST 133  Search Engine Optimization and Web Promotion
(3 units)(No prerequisite. Advisory: Multimedia Studies 131. Two and one-half lecture and two and one-half laboratory hours weekly.)

Designing and building a Web page is only part of the required effort behind all successful Web sites. Successful sites attract and maintain a regular flow of visitors by successfully promoting themselves through the major search engines and directories. This course will cover how to promote web sites using the rapidly changing world of Web search engines and directories. Students will learn how the Web's popular search systems and Directories work so they can use them to better promote and market web sites of all sizes, complexity, and purpose. In this class, students will learn both how to set up cost effective and successful paid search engine marketing campaigns and how to design attractive sites that place well in the free search listings. Offered as a Web Based Course. May be taken once for credit. (CSU)

MMST 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

MMST 143  Video Production for Multimedia
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

This course will provide a basic knowledge of video production as it applies to multimedia including Internet and Web based applications. Emphasis will be on developing a foundation of skills covering beginning-to-end design and production processes for video-intensive multimedia. There will be broad exposure to good and bad examples of video integration formats. (CSU)

MMST 144  Audio Production for Multimedia
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

This course will provide a basic knowledge of sound production from beginning to end. Emphasis will be on developing a foundation of skills and broad exposure to good and bad examples of sound integration formats. (CSU)

MMST 150  Digital Imaging and Production
(3 units)(No prerequisite. Advisory: Multimedia Studies 123. Two lecture and three laboratory hours weekly.)

This course will provide intermediate knowledge of bit-mapped and imaging techniques for producing accurate output results, as well as advanced creative and production techniques for both Web and print. Assignments involve the creation of original designs using current digital tools. Design skills will be developed through projects using analysis, research and critiques. Can also be offered in a distance learning format as a Web based course. (CSU)

MMST 151  Digital Illustration and Animation
(3 units)(No prerequisite. Advisory: Multimedia Studies 123. Two lecture and three laboratory hours weekly)

This course will provide an increased knowledge of drawing, illustrating and animating for printed and interactive content. Advanced production techniques, theories and methods for enhanced interactivity and design. Assignments involve the creation of original illustrations and animated shorts using current digital tools. Design skills will be developed through projects using research, practice and applied knowledge. Can also be offered in a distance learning format as a Web based course. (CSU)

MMST 154  Software Applications for Multimedia: Digital Media Authoring
(1½ units)(Prerequisite: Multimedia Studies 131 or concurrent enrollment. Two lecture and three laboratory hours weekly for eight weeks.)

These variable software specific courses will provide basic knowledge and hands-on experience with the leading commercial authoring applications for multimedia. Emphasis will be on developing skills for producing CD-ROM, intranet, DVD-ROM or other high-bandwidth-based media applications. Examples of software include Macromedia Director, and Authorware Attain. (CSU)

MMST 155  Software Applications for Multimedia: Web Authoring
(1½ units)(Prerequisite: Multimedia Studies 131. Two lecture and three laboratory hours weekly for eight weeks.)

These variable software specific courses will provide basic knowledge and hands-on experience with the latest commercial authoring applications for the Web. Emphasis will be on developing solid skills building Web sites with a variety of commercial software applications including Go Live, Microsoft Front Page, and Macromedia Dreamweaver. Offered in a distance learning format. (CSU)
MMST 158  Audio Design for Interactive Media and Games  
(3 units) (No prerequisite. Advisory: Multimedia Studies 144. Two and one-half lecture and two and one-half laboratory hours weekly.)  
This course will provide intermediate knowledge of generating digital audio, editing, design and effects using current digital software, hardware and techniques. Focus is on how to make good editorial decisions as well as the efficient use of a variety of programs. Assignments involve practice tutorials and the creation of original projects using current digital tools.

MMST 163  3-D Character Animation: Complex Lighting and Materials  
(3 units) (No prerequisite. Two and one-half lecture and two and one-half laboratory hours weekly.)  
This class will focus on the intended purpose of 3-D lighting and materials and how to dress it for believability, including atmospheres and particle systems, as well as special effects such as glows, flares, and blurs. This course will also review and extend your skills in setting up lights, atmospheres, particle systems and cameras, in building believable textures, and in creating environments for 3-D animation or game play. (CSU)

MMST 166  Digital Video Editing and Motion Graphics  
(3 units) (No prerequisite. Advisory: Multimedia Studies 143. Two lecture and three laboratory hours weekly.)  
This course will provide intermediate knowledge of video editing and effects using current digital software, hardware and techniques. Focus is on how to make good editorial decisions as well as the efficient use of a variety of programs. Assignments involve practice tutorials and the creation of original projects using current digital tools. (CSU)

MMST 168  Small Recording Studio Theory and Design  
(3 units) (No prerequisite. Advisory: Multimedia Studies 144. Two and one-half lecture and two and one-half laboratory hours weekly.)  
This course will provide intermediate knowledge of how to build and maintain a working, competitive home or small studio in an efficient and economical way. With the ever-increasing variety of digital audio software available, this course can help guide students towards a standardization of home audio studio design as well as a standardization of basic audio production terms. (CSU)

MMST 200  Portfolio Development  
(3 units) (No prerequisite. Three lecture hours weekly.)  
Through lecture, research and critiques, students will develop a professional portfolio that reflects their interests, skills, and career goals. This course is for students that have accomplished multimedia skills and wish to develop strategies of self-promotion for their area of expertise. (CSU)

MMST 210  Advanced Project  
(½ unit) (No prerequisite. One and one-half laboratory hours weekly.)  
This course will provide students with the opportunity to design and implement group or individual creative projects containing graphics, animation, audio, video or authoring components. This course will provide a forum for exploring and testing potential project ideas that students will take from concept to final product. Students will receive guidance and support in critiquing work, forming creative alliances, and polishing existing work.  
This course is for students who are ready to plan, design and implement independent advanced multimedia projects such as CD-ROMs, DVDs, Web sites and more. Lab activities will involve taking a project idea, either individually or as a group, through the following production stages: design, preproduction, prototyping, production, testing, and delivery. May be taken twice for credit. (CSU)

MMST 213  Internship in Multimedia  
(3 units) (Prerequisite: Multimedia Studies 200. Two lecture and three laboratory hours weekly.)  
This course bridges the gap between the classroom and the multimedia systems industry. By providing an on-campus lecture class coupled with a short-term internship, students gain an understanding of real multimedia work situations and expectations in a “real-life” context characterized by workgroup activities, multiple projects under deadline, and collaborative effort. Internships are not guaranteed. Projects may be suitable for student portfolios. (CSU)

MMST 223  Print and Packaging Design  
(3 units) (No prerequisite. Advisories: Multimedia Studies 150 and 151. Two lecture and three laboratory hours weekly.)  
This course will provide a basic knowledge of design as it applies to printed media (2D), products and packaging (3D). Assignments involve the creation of original designs using current digital tools. Design and visualization skills will be developed through projects using analysis, research, and critiques. Can also be offered in a distance learning format as a Web based course. (CSU)
MMST 231  Scripting and Interactive Multimedia Production  
(3 units)(No prerequisite: Advisories: Computer Information Systems 141 and Multimedia Studies 131. Two lecture and three practicum hours weekly.)

This course covers how to use scripting technologies in conjunction with authoring tools to develop interactive, data-driven multimedia products. This course is for both designers and developers desiring to create more sophisticated, professional caliber multimedia products made possible by the application of scripting languages working within modern popular authoring applications. These scripting languages include, but are not limited to, Lingo, ActionScript, and JavaScript working within authoring packages such as Dreamweaver, Flash or Director. May be taken once for credit. May also be offered online as a Web Based Class. (There are no on-campus attendance requirements for online sections. Two hours of online, technology mediated live lectures per week and three practicum hours, TBA per week.)  
(CSU)

MMST 240  Advance Sound and Video Design  
(3 units)(No prerequisite: Advisories: Multimedia Studies 143 and 144. Two lecture and three laboratory hours weekly.)

This course will provide an advanced knowledge of time based material as it relates to sound and video design. Collaborative and crossover skills will be developed through the creation of individual or group projects using current digital tools in audio and video.  
(CSU)

MMST 249  Directed Study  
(1-3 units)(Please see Directed Study category.)  
(CSU w/limit)

MUSIC COURSES


General Information:

Students enter college with various experience and backgrounds in music. Furthermore, they take music courses with a variety of goals in mind. Consequently, while several of our offerings are open to everyone, passing our Music Placement Test (MPT) or a standardized audition is required for more advanced classes. Most music classes require that a student have some skill with music notation. Music 106 is designed to provide this theoretical background. In addition, a potential music major or minor must be able to listen analytically to classical music. Music 101 serves this purpose. The Music Placement Test is advised for those who feel they have sufficient background and therefore don't need to take preliminary courses.

There are a variety of skills and abilities required of the music major who transfers from the College of Marin to complete upper division work elsewhere. Consequently, coursework at the Kentfield Campus has been divided into as many component parts as possible to enable students to work at their level in each area. The following chart illustrates each component part of the music major package at various levels. It is not necessary for students to be at the same level in each area. In fact, it is to students' advantage to be ahead a semester or two in piano and ear training. However, since it is to students' disadvantage to get ahead in theory without developing the listening, physical, and analytical skills, it is urged that the theory components be taken after all other components at the same level, if not taken concurrently.

MUSIC MAJOR CHART

<table>
<thead>
<tr>
<th>Level</th>
<th>Theory</th>
<th>Ear Training</th>
<th>Piano</th>
<th>Lit/Analyses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary</td>
<td>Mus 106</td>
<td>Mus 106</td>
<td>Mus 106</td>
<td>Mus 101</td>
</tr>
<tr>
<td>Level 1</td>
<td>Mus 111 (f)</td>
<td>Mus 121</td>
<td>Mus 171</td>
<td>Mus 102 (sp)</td>
</tr>
<tr>
<td>Level 2</td>
<td>Mus 112 (sp)</td>
<td>Mus 122 (sp)</td>
<td>Mus 172</td>
<td>Mus 102 (sp)</td>
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<tr>
<td>Level 3</td>
<td>Mus 211 (f)</td>
<td>Mus 221 (f)</td>
<td>Mus 271</td>
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<tr>
<td>Level 4</td>
<td>Mus 212 (sp)</td>
<td>Mus 222 (sp)</td>
<td>Mus 272 (sp)</td>
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</tbody>
</table>

Performing Ensemble: One of the following  
EACH SEMESTER: Mus 162, 163, 165, 166, 167, 168, 169

Major Performing Ensemble

Our large ensembles provide students the opportunity for musical growth at all stages of their development. Participation in a major performing ensemble is just as essential, if not more so, to those just learning the basic music vocabulary as to those who have the opportunity to perform solos with the ensemble. The College of Marin's major performing ensemble requirement must be satisfied in the following manner: Those whose major performing medium is a band or orchestra instrument must be in either Music 162, 167, or 168. Those whose performance medium is voice, or whose instrument is one not usually associated with ensemble work (piano, guitar, etc.), must be in either Music 163 or 169. Pianists may partly fulfill this requirement as noted in the Music 165 and Music 166 course descriptions, however.

Standardized Auditions

Several music courses require an audition based upon a standardized level of performance. Every student who participates in one of these courses is expected to meet the musical requirements of the particular audition. Auditions will vary from course to course.

MUS 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

MUS 101  Introduction to Classical Music  
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)

The appreciation and enjoyment of classical music through analytical listening. The study of musical elements; the development of musical forms and styles, vocal and instrumental media, the lives of the great composers, and analyses of their works. Illustrated by recordings.  
(CSU/UC)  
AA/AS Area C, CSU Area C-1, IGETC Area 3A
MUS 102 Music Masterworks
(3 units)(Prerequisite: Music 106 or Music 111. Three lecture hours and one laboratory hour weekly.)
This course includes guided listening and discussions, examples in hand, of music masterworks from the beginning of written history to the present. Prerequisite skills required: ability to read treble and bass clef and easy basic rhythms; understanding tonic and dominant relationship, intervals, chords, major and minor scales and key signatures. (CSU/UC) AA/AS Area C, CSU Area C-1, IGETC Area 3A

MUS 105 Rock, Pop and Jazz
(3 units)(No prerequisite. Three lecture hours weekly.)
A multicultural study of the evolution of American musical styles including blues, salsa, rock, jazz, pop, rhythm and blues, and country and folk, with emphasis on the African American, Euro-American, Latin American origins of these contemporary styles, and their historical contexts. (CSU/UC) AA/AS Areas C&G, CSU Area C-1, IGETC Area 3A

MUS 106 Music Fundamentals
(3 units)(No prerequisite. Advisory: Music 163. Three lecture hours weekly.)
Designed for anyone interested in acquiring basic music skills for performance, teaching or composition included. Music reading, notation, terminology, piano keyboard, sight singing, ear training, etc. Not open to students who have completed Music 111, 112, 211, or 212. Can also be offered in a distance learning format. (CSU/UC) AA/AS Area C, CSU Area C-1

MUS 111 Theory I
(4 units)(Prerequisite: Music 106. Corequisites: Music 121, 122, 221, or 222 as determined by standardized placement examination; one major performing ensemble: Music 162, 163, 167, 168, or 169 and class piano: Music 171, 172, 271, or 272. Three lecture and three laboratory hours weekly.)
Beginning music theory. Review of scales, key signatures, time signatures, intervals, triads, and seventh chords. Intensive study of four-part harmonic progressions including cadences, voice leading and doubling rules, and some nonharmonic tones. (CSU/UC)

MUS 112 Theory II
(4 units)(Prerequisite: Music 111. Corequisites: Music 122, and 172, unless previously completed, and one major performing ensemble. See Music 111 for details of these corequisites. Three lecture and three laboratory hours weekly.)
Continued study of harmonic progressions—focusing on secondary triads dominant and supertonic sevenths with inversions, modes, counterpoints, etc. (CSU/UC)

MUS 113 Jazz Improvisation
(3 units)(Prerequisite: Ability to play or sing all major scales from memory. Corequisite: Enrollment in any performance ensemble. Three lecture hours weekly.)
An introduction to jazz improvisation for instrumentalists and vocalists who wish to develop their ability to perform jazz solos. The ability to play or sing all major scales from memory is a prerequisite for this course. Students will learn contemporary harmonic theory, including scales, modes, extended and altered chords and will apply this knowledge to the craft of improvisation. Classroom experience will include playing with a rhythm section and the transcription of representative jazz solos. May be taken twice for credit. (CSU/UC)

MUS 114 Creating an Audio CD
(2 units)(No prerequisite. Twelve sessions of three hours each.)
This twelve-session course deals with the process of taking a project from concept to completion in the realm of Digital Audio. Using a CD-quality digital stereo recording environment that can capture an audio signal, musicians and sound designers can now record mono or stereo digital masters. Using Macintosh computer and current software, will provide a true eight-track recording and mixing studio with simultaneous MIDI file playback, all covered in this class. May be taken twice for credit. (CSU)

MUS 116 Desktop Musician I
(3 units)(No prerequisite. Two lecture and three laboratory hours weekly.)
Basic concepts of acoustics, techniques of electronic music synthesis, digital audio, and MIDI. Emphasis on performance/application of these techniques to portable synthesizers, and computers. Course includes fundamentals of acoustics, multichannel recording, and editing techniques. Introduction to MIDI digital audio and its computer usage. Supervised “hands-on” practice sessions in addition to required individual lab time. (CSU)

MUS 117 Desktop Musician II
(3 units)(Prerequisite: Music 116. Two lecture and three laboratory hours weekly.)
Detailed study of digital recording via MIDI with emphasis on editing, looping, generating sequences, shifting, and quantizing. Continued study of acoustics as related to recording and synthesizer programming included. Performance/application is a requirement. Introduction to composer software. (CSU)

MUS 119 Media Music Composition
(3 units)(Prerequisite: Music 111. Three lecture hours weekly.)
This course includes composing and arranging music for use in media (films, videos, commercials). Four composing projects will include woodwinds, brass, strings, and percussion. All compositions will be played and recorded. May be taken twice for credit. (CSU)
MUS 121-122  Ear Training I and II
(2-2 units)(Prerequisite: Music 106. Music 121 is a prerequisite to Music 122. One lecture and three laboratory hours weekly.)

The ear training component of the music major package. Instruction includes rhythmic and melodic sight reading; rhythmic, melodic, and harmonic aural perception. Both Music 121 and 122 may be taken twice for credit. (CSU/UC)

MUS 128-128L  Ear Training Skills
(1-1 unit)(Prerequisite: One or more of the following courses: Music 106, 121, and 122. Corequisites: Music 128 and 128L must be taken concurrently. One lecture and three laboratory hours weekly.)

An ear training workshop specifically designed to provide music majors with a course in which they can maintain their skills in melodic and rhythmic sight reading and rhythmic, melodic, and harmonic aural perception. May be taken twice for credit. (CSU/UC)

MUS 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

MUS 161  Youth Orchestra
(1 unit)(No prerequisite. Three laboratory hours weekly.)

This orchestra is suited to the needs of the young performer, primarily at the high school level. It includes rehearsal and performance of standard orchestra literature from the Baroque, Classical, Romantic, and Contemporary periods. May be taken four times for credit. (CSU)

MUS 162  Band
(1 unit)(Prerequisite: Music 176. Three laboratory hours weekly.)

A daytime instrumental music group for people with some skills with traditional band instruments. Players with limited skills as well as those with considerable experience are accepted. This course satisfies the major performing ensemble requirement for music majors and minors. Participation in public performance is required. May be taken four times for credit. (CSU/UC)

MUS 163  College Chorus
(1 unit)(No prerequisite. Three laboratory hours weekly.)

A chorus of mixed voices for the general college student. The rehearsal and performance of choral music of a moderate degree of difficulty. Techniques of choral singing are emphasized. Participation in public performances is required. May be taken four times for credit. (CSU/UC)

MUS 165  Piano Ensemble
(2 units)(Prerequisite: Standardized audition. Six laboratory hours weekly.)

The study, rehearsal, and performance of music for piano ensemble (one piano/four hands, two pianos/four hands, etc). Music majors who are pianists may satisfy two semesters of the major performing ensemble requirement with this course. May be taken four times for credit. (CSU/UC)

MUS 166  Piano Repertoire and Interpretation
(2 units)(Prerequisite: Music 272 and standardized audition. Six laboratory hours weekly.)

A chronological survey of piano literature, stressing stylistic features. Students will perform in class and at a final recital. Music majors who are pianists may satisfy two semesters of the major performing ensemble requirement with this course. May be taken four times for credit. (CSU/UC)

MUS 167  Community Symphony Orchestra
(1 unit)(Prerequisite: Standardized audition. Three laboratory hours weekly.)

The study, rehearsal, and performance of music composed for chamber orchestra and full symphony orchestra from Baroque, Classical, Romantic, and contemporary periods. Participation in public performances is required. May be taken four times for credit. (CSU/UC)

MUS 168  Community Symphonic Band
(1 unit)(Prerequisite: Standardized audition. Three laboratory hours weekly.)

An advanced ensemble for wind and percussion players meeting in the evening. The study, rehearsal, and performance of band literature. Participation in public performances is required. May be taken four times for credit. (CSU/UC)

MUS 169  Community Chorus
(1 unit)(Prerequisite: Standardized audition. Three laboratory hours weekly.)

A chorus of mixed voices for the College and the community. The study, rehearsal, and performance of masterpieces of choral literature, usually with orchestral accompaniment. Techniques of choral singing are emphasized. Participation in public performances is required. May be taken four times for credit. (CSU/UC)

MUS 171-172  Piano I and II
(2-2 units)(Prerequisite for Music 171 is Music 106. Music 171 is a prerequisite for Music 172. Six laboratory hours weekly.)

Designed to help students develop mental and physical habits that lead to keyboard competence. Develops musicianship and sense of musical style and provides foundation for materials being studied in other components of the music program. Both Music 171 and 172 may be taken twice for credit. (CSU/UC)

MUS 173  Beginning Band
(1 unit)(No prerequisite. Three laboratory hours weekly.)

A beginning study of a woodwind, brass, or percussion instrument. This course is designed for students who wish to learn a band or orchestral instrument other than a string instrument. It is strongly recommended for those planning to teach in the public schools and for those who plan to arrange or compose music. May be taken four times for credit, provided a different instrument is studied each semester. (CSU/UC)
MUS 174  Class Instrument Instruction: Brass
(1 unit)(Prerequisite: Ability to read simple music. Advisory: Music 106. One-half lecture and one and one-half laboratory hours weekly.)
Beginning study of brass designed to introduce students to standard brass instruments as partial preparation for teaching in the public schools and for those who desire to learn a second instrument. Also, this class is appropriate for composers desiring a first-hand knowledge of these instruments. May be taken four times for credit, provided a different instrument is studied each semester. (CSU/UC)

MUS 175  Class Instrument Instruction: Percussion Technique
(1 unit)(Prerequisite: Ability to read simple music. Advisory: Music 106. One-half lecture and one and one-half laboratory hours weekly.)
Beginning study of percussion designed to introduce students to standard percussion instruments as partial preparation for teaching in the public schools and for those who desire to learn a second instrument. Also, this class is appropriate for composers desiring a first-hand knowledge of these instruments. May be taken twice for credit. (CSU/UC)

MUS 176  Intermediate Band
(1 unit)(Prerequisite: Music 173 or 174 or 175. Three laboratory hours weekly.)
A band of woodwinds, brass, and percussion to meet the requirements of players not yet advanced enough for concert band, but more advanced than the beginning classes. This course will prepare players for concert band. Ensemble techniques will be taught. May be taken four times for credit. (CSU/UC)

MUS 177  Jazz Ensemble
(1 unit)(Prerequisite: Standardized audition. Corequisite: Concurrent enrollment in major performing ensemble most appropriate to the individual’s performance medium. Three laboratory hours weekly.)
This course is for instrumentalists who desire both ensemble and solo training in the jazz idiom. Various styles of jazz and instrumental techniques are emphasized. Participation in public performances is required. May be taken four times for credit. (CSU/UC)

MUS 178  Class Instrument Instruction: Strings
(1 unit)(Prerequisite: Ability to read simple music. Advisory: Music 106. Three laboratory hours weekly.)
Beginning study of string instruments. May be taken four times for credit, provided a different instrument is studied each semester. (CSU/UC)

MUS 179  Intermediate Orchestra
(1 unit)(Prerequisite: Music 178. Three laboratory hours weekly.)
An orchestra primarily of string instruments designed to: (1) meet the requirements of players not yet ready for community orchestra, but more advanced than beginning strings, and (2) to prepare players for community symphony orchestra. Individual and ensemble techniques will be taught. May be taken four times for credit. (CSU/UC)

MUS 180AB  Chamber Music Ensemble I and II
(1-2 units)(Prerequisite: Standardized audition. Corequisite: Major performing ensemble most appropriate to the individual’s performing medium. Three laboratory hours weekly for one unit and six laboratory hours weekly for two units.)
The study, rehearsal, and performance of repertoire for small instrumental ensembles (may include voice). Choice of literature. Combinations of Music 180A and 180B may be taken a total of four times for credit. (CSU/UC)

MUS 181-182  Voice I and II
(2-2 units)(Prerequisite for Music 181 is Music 106 and standardized audition. Music 181 is a prerequisite for Music 182. Six laboratory hours weekly.)
Elementary class instruction in the fundamentals of singing, principles of tone production, and voice development. Both Music 181 and 182 may be taken twice for credit. (CSU/UC)

MUS 183  Chamber Singers
(2 units)(Prerequisite: Standardized audition. Corequisite: Music 163. Six laboratory hours weekly.)
A small select choir of mixed voices performing music written for small choral ensembles. Participation in public performances is required. May be taken four times for credit. (CSU/UC)

MUS 185  Chamber Music Workshop
(½ unit)(Prerequisite: Standardized audition. A total of twenty-three and one-third hours for one weekend during the summer.)
Chamber Music Workshop provides the student a broad experience in learning the chamber music repertoire. Students will be matched by appropriate ability level; and small ensembles, from trios to nonets, will be formed. All students will play in three or four different groups during this intensive weekend session. May be taken four times for credit. (CSU/UC)
MUS 186ABC  World Music Workshop
(½, ½, ½ units) (No prerequisite. Each module is approximately thirteen hours per semester.)

This course provides the student the opportunity to focus on one aspect of world music, such as African drumming, in an introductory short course, lecture/lab experience. Students will not only examine historical underpinnings of the topic but will have the opportunity to physically experience drumming using specific techniques and rhythms. Each module may be taken four times for credit. (CSU/UC)

Modules offered are:

<table>
<thead>
<tr>
<th>Units</th>
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<tbody>
<tr>
<td>186A. Taiko Drumming Techniques and Rhythms. 1/2</td>
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<tr>
<td>186B. African Drumming Techniques and Rhythms. 1/2</td>
</tr>
<tr>
<td>186C. Latin Drumming Techniques and Rhythms. 1/2</td>
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MUS 187  Chamber Orchestra
(1 unit) (Prerequisite: Music 179. Three laboratory hours weekly.)

An orchestra primarily of stringed instruments designed to meet the requirements of players not yet ready for Community Symphony Orchestra, but more advanced than Beginning Strings and Intermediate Orchestra. To prepare players for Community Symphony Orchestra, individual and ensemble techniques will be taught. May be taken four times for credit. (CSU/UC)

MUS 191  Musical Production: Orchestra
(1-3 units) (Prerequisite: Standardized audition. Instructor will decide number of units to be given, with fifty hours of rehearsal and performance required for each unit.)

Rehearsal and performance of orchestral accompaniment to staged musical productions. Participation in public performances is required and is the final exam for this course. May be taken four times for credit. (CSU/UC)

MUS 193  Musical Production: Cast
(1-3 units) (Prerequisite: Standardized audition. Instructor will decide number of units to be given, with fifty hours of rehearsal and performance required for each unit.)

Rehearsal and performance of all vocal music aspects of staged musical production. Participation in public performances is required and is the final exam for this course. May be taken four times for credit. (CSU/UC)

MUS 194  Applied Music
(1-2 units) (Prerequisite: Instrumental or vocal ability. Corequisite: Enrollment in any of the following performance ensembles: Music 163, 167, 168, 169, 177, 179, or 191. Advisory: Private instruction is strongly advised but not required. For one unit, three laboratory hours weekly; for two units, six laboratory hours weekly.)

Credit for supervised practice room use. In addition, attendance at four noon recitals is required. All hours are verified by sign-up procedure. May be taken four times for credit. (CSU)

MUS 211  Theory III
(4 units) (Prerequisites: Music 112 and 122. Corequisite: Major performing ensemble. Three lecture and three laboratory hours weekly.)

Chromatic harmony is introduced through secondary dominants, diminished sevenths and other secondary seventh chords, modal borrowing, etc. Analysis and composition are included in discussion and assignments. Some keyboard applications. (CSU/UC)

MUS 212  Theory IV
(4 units) (Prerequisites: Music 211 and 221, unless previously completed major performance ensemble. Three lecture and three laboratory hours weekly.)

Additional chromatic harmonies, including Neapolitan sixths, augmented sixth chords, and expanded tertial harmonies, are examined, followed by an overview of impressionism and twentieth-century harmony. Analysis and composition are included in discussion and assignments. Some keyboard applications. (CSU/UC)

MUS 214  Music Composition Seminar
(3 units) (Prerequisite: Music 212 or concurrent enrollment in Music 211. Three lecture hours weekly.)

Individualized instruction in art music composition. Students will work at their own pace on assignments of their choice. The class will meet as a group to listen to compositions by students as well as other composers. Students are expected to complete several small or one large composition during the semester. May be taken four times for credit. (CSU/UC)

MUS 221-222  Ear Training III and IV
(2-2 units) (Prerequisite for Music 221 is Music 122. Music 221 is a prerequisite for Music 222. One lecture and three laboratory hours weekly.)

A continuation of Music 121 and Music 122. Music 221 may be taken twice for credit. Music 222 may be taken four times for credit. (CSU/UC)

MUS 249  Directed Study
(1-3 units) (Limit to Enrollment Music 112, 122, and 172 with at least a B minus grade average in all music major courses. Prior arrangement with the instructor is necessary.)

A course designed to give the student the opportunity to conduct a special project in music. The student plans and executes an individual project under the direction of a member of the department. The project must be completed within the semester. The final grade is determined by regular conferences with the instructor during the semester and the evaluation of the completed project. Projects may be in the areas of performance, composition, orchestration, history and literature, conducting, or musical theatre. May be taken four times for credit. (CSU/UC w/limit)
MUS 261AB  Small Ensemble Techniques  
(1-2 units) (Prerequisite: Standardized audition. Three laboratory hours weekly for one unit and six laboratory hours weekly for two units.)

This class focuses on improving the skills of the musician in an ensemble. Recommended for students who already have had chamber ensemble experience. May be taken for a total of eight units. (CSU/UC)

MUS 262AB  Large Ensemble Techniques  
(1-2 units) (Prerequisite: Standardized audition. Three laboratory hours weekly for one unit and six laboratory hours weekly for two units.)

This class focuses on improving the skills of a musician in a large ensemble. Recommended for students who already have large ensemble experience. May be taken for a total of eight units. (CSU/UC)

MUS 271-272  Piano III and IV  
(2-2 units) (Prerequisite for Music 271 is Music 172. Music 271 is a prerequisite for Music 272. Six laboratory hours weekly.)

A continuation of Music 171 and 172, with more emphasis on the development of a functional knowledge of musical structure, melody, rhythm, harmony, and form. Attention is given to individual levels of achievement. Music 271 may be taken twice for credit. Music 272 may be taken four times for credit. (CSU/UC)

MUS 281-282  Voice III and IV  
(2-2 units) (Prerequisite for Music 281 is Music 182. Music 281 is a prerequisite for Music 282. Six laboratory hours weekly.)

Intermediate class instruction in the fundamentals of singing, principles of tone production, and voice development with emphasis in vocal literature particularly in Music 282. Music 281 may be taken twice for credit. Music 282 may be taken four times for credit. (CSU/UC)

**NURSING EDUCATION COURSES**

**N E 39  Selected Topics (Nondegree Applicable)**  
(½-6 units)  
*Please see Selected Topics category.*

**N E 90  Introduction to Nursing Education and Practice**  
(1 unit) (No prerequisite. Two lecture hours weekly for eight weeks.)

This course is required for applicants to the Registered Nursing Program, as well as persons seeking information about nursing education. The role of nursing within the context of the health care delivery system is explored. Vital information about college resources, planning, and admission requirements to the nursing program are included. Professional communication, coping strategies, time management skills, and test taking strategies are outlined. The functions of the Board of Registered Nursing are summarized. Students will learn what reading, writing, speaking, and math competencies are needed in nursing school. Diagnostic tests in reading, writing, verbal and math skills will be given to help students identify and to meet academic factors which will promote successful completion of the nursing program.

**N E 95  Effective Strategies for Success in the Registered Nursing Program**  
(1 unit) (No prerequisite. Seventeen and one-half lecture hours for one week.)

This course is designed to introduce the nursing student to the College of Marin Registered Nursing Critical Thinking Model, explore test-taking strategies, and identify techniques to navigate the nursing program successfully. Classroom learning exercises and collaborative learning projects are used to apply the information.

**N E 100  Introduction to Health Careers**  
(2 units) (No prerequisite. Can be taken for credit as Dental Assisting 100, Health Education 100, Medical Assisting 100, or Nursing Education 100. However, credit will be awarded for only one course. Two lecture hours weekly.)

This course is designed for students interested in pursuing a career in a health profession. It provides an overview of the current health care delivery system, the physical, mental, and emotional demands of the workplace and the skills needed by the healthcare worker today and in the future. Students will learn about qualifications and professional preparation needed for various careers and analyze the roles and responsibilities in today’s health care environment. This course is designed to help students develop realistic career goals as well as to give an appreciation of how the current health care delivery system is influencing individual health professional roles and responsibilities.

**N E 101  Level I Nursing Skills Laboratory**  
(1 unit) (No prerequisite. Corequisite: Nursing Education 138 and Nursing Education 135, and enrollment in the Registered Nursing Program. Three laboratory hours weekly.)

This course provides opportunities for first-year registered nursing students (Level I) to learn and practice basic assessment and technical skills fundamental to professional nursing across the lifespan in the safety of a simulated clinical environment. Instruction includes presentation of evidence-based practice and scientific rationales for performance of technical skills, skill demonstrations, and the opportunity for guided/supervised student practice. In addition to the achievement of technical skill competency, emphasis is placed on integrating the use of the nursing process, communication and documentation skills, client care management skills, and critical thinking and problem solving skills through the use of clinical simulations and case scenarios. (CSU)
N E 102 Level II Nursing Skills Laboratory
(½ unit)(No prerequisite. Corequisites: Nursing Education 140. Two laboratory hours weekly for twelve weeks.)
This course provides opportunities for first-year registered nursing students (Level II) to learn and practice intermediate assessment and technical skills fundamental to professional nursing across the lifespan in the safety of a simulated clinical environment. Instruction includes presentation of evidence-based practice and scientific rationales for performance of technical presentation of evidence-based practice and scientific rationales for performance of technical skills, skill demonstrations, and the opportunity for guided/supervised student practice. In addition to the achievement of technical skill competency, emphasis is placed on integrating the use of the nursing process, communication and documentation skills, client care management skills, and critical thinking and problem solving skills through the use of clinical simulations and case scenarios. (CSU)

N E 103 Open Skills Lab
(½ unit)(No prerequisite. Corequisites: Nursing Education 101 or 102, or 150L. One and one-half laboratory hours weekly.)
This course provides opportunities for registered nursing students concurrently enrolled in a nursing skills lab course (Nursing Education 101, 102 and 150L) to have additional supervised practice performing clinical skills that are required for the profession of registered nursing. Students may enroll in Nursing Education 103 concurrent with other nursing skills labs during the fall and spring semesters of the first year of the nursing program. (CSU)

N E 110 Role Transition: LVN to RN
(1 unit)(Prerequisite: Admission to LVN to RN Transition. Seventeen and one-half lecture hours over three days.)
This course is designed to assist the LVN students to adapt to change and transition as they pursue education to become a registered nurse. Discussion topics will include the role of the registered nurse, change theory, a critical thinking model, nursing care planning, leadership and legal responsibilities, and intravenous therapy management and medication administration. This course is designed to meet the National League of Nursing Accrediting Commission standards. (CSU)

N E 135 Nursing I: Fundamentals of Nursing
(4 units)(Prerequisites: English 120; Biology 120, 224, 240; Chemistry 110; Nursing Education 90. Advisory: Computer Information Systems 101 Corequisite: Nursing Education 138. Four lecture hours weekly.)
This is a foundation course for nursing practice. The course presents concepts related to clients within the context of their environments, including growth and development, culture, and health–illness, and to the health care delivery system and the political, economic, and social factors that affect it. The course introduces caring in nursing, critical thinking in applying the nursing process and managing client care, communication, client education, and legal and ethical practice. Students learn how to perform an age-specific health assessment and basic physical examination, to recognize alterations in these assessments, and to engage in therapeutic interventions that promote and maintain clients’ health. Students learn fundamental nursing concepts related to care of immobilized clients, surgical clients, clients with alterations in skin/tissue integrity, and clients with sensory alterations. (CSU)

N E 135L Nursing I: Fundamentals Clinical Laboratory
(2½ units)(No prerequisites. Corequisite: Nursing Education 101 and Nursing Education 135. Seven and one-half laboratory hours weekly.)
This course is the clinical laboratory for Nursing Education 135. Students learn to perform an age-specific health assessment and a basic physical examination, to recognize alterations in these assessments, and to engage in activities that promote and maintain clients’ health. Students apply the nursing process to the care of the immobilized client, the surgical client, the client with an alteration in skin/tissue integrity, and the client with a sensory alteration. (CSU)

N E 138 Introduction to Pharmacology and Medication Administration for Nurses
(1 unit)(Prerequisite: Math 101. Corequisite: Nursing Education 135. One lecture hour weekly.)
This course focuses on the registered nurse’s role in drug therapy. It introduces principles of pharmacology, explores legal, ethical, cultural, psychological and educational aspects of medication administration, and provides a framework based on the nursing process for the safe preparation and administration of medications to all age groups. The course focuses on principles for the safe preparation and administration of medications by the following routes: enteral (e.g., oral and via gastric tubes), topical (including skin and mucous membranes, e.g., eye, ear, buccal, sublingual, vaginal, rectal) inhalation, and parenteral (e.g., intradermal, subcutaneous, intramuscular, intravenous). Drug dosage calculation is emphasized. (CSU)

N E 139 Selected Topics
(½–6 units)(Please see Selected Topics category.) (CSU w/limit)

N E 140 Nursing II: Medical-Surgical Nursing
(3 units)(Prerequisites: Nursing Education 135 and 138. Six lecture hours weekly for eight weeks.)
This course builds on nursing concepts presented in Nursing I and prepares students to apply the nursing process to pediatric and adult clients with non-critical/moderately complex medical-surgical conditions. The selected medical-surgical conditions involve alterations in fluid/electrolytes and acid/base balance, oxygenation, nutrition, elimination, and endocrine regulation. Included are concepts of pathophysiology, medical/surgical management, and collaborative care. There is an emphasis on the nurse’s role in preventing health problems, reducing complications, and maintaining physiological and psychological integrity. (CSU)
N E 140L  Nursing II Medical-Surgical Clinical Laboratory  
(2½ units)(No prerequisites. Corequisites: Nursing Education 102 and 140. Fifteen laboratory hours weekly for 8 weeks.)  
This course is the clinical laboratory for Nursing Education 140. Students apply the nursing process to the care of pediatric and adult clients with non-critical/moderately complex medical-surgical conditions, involving alterations in fluid/electrolytes and acid/base balance, oxygenation, nutrition, elimination and endocrine regulation. Students learn to conduct a comprehensive nursing assessment and to intervene to prevent health problems and reduce complications. Students learn to manage care for two moderately complex clients and to apply risk reduction strategies to protect the client and maintain legal and ethical nursing practice. (CSU)

N E 203  Nursing Skills Laboratory  
(½ unit)(No prerequisite. Corequisite: Nursing Education 230L or 232L or 234L or 236L. One and one-half laboratory hours weekly.)  
This course provides opportunities for registered nursing students to learn and practice clinical skills required for the profession of registered nursing. Instruction and practice take place in the nursing skills laboratory under the supervision of a qualified instructor. (CSU)

N E 204  Nursing Skills Laboratory  
(½ unit)(No prerequisite. Corequisites: Nursing Education 240L; and Nursing Education 230L or 232L or 236L. One and one-half laboratory hours weekly.)  
This course provides opportunities for registered nursing students to learn and practice clinical skills required for the profession of registered nursing. Instruction and practice take place in the nursing skills laboratory under the supervision of a qualified instructor. Skills learned in the last eight weeks assist the student in making a smooth transition from the role of student to the role of registered nurse in the workplace. (CSU)

N E 205  Open Skills Lab  
(½ unit)(No prerequisite. Corequisite: Nursing Education 203 or 204. One and one-half laboratory hours weekly.)  
This course provides opportunities for registered nursing students concurrently enrolled in a nursing skills lab course (Nursing Education 203 and 204) to have additional supervised practice performing clinical skills that are required for the profession of registered nursing. Students may enroll in Nursing Education 205 concurrent with other nursing skills labs during the fall and spring semesters of the second year of the nursing program. (CSU)

N E 210  Nursing Care of the Childbearing Family  
(2 units)(Prerequisite: Nursing Education 140. Corequisites: Nursing Education 210L and enrollment in the Registered Nursing Program. Four lecture hours weekly for eight weeks.)  
This course presents nursing care for the childbearing family during the prenatal, labor and delivery, postpartum, and neonatal periods. An emphasis is placed on the nurse’s role in promotion of wellness and prevention of complications through health education. Students learn to recognize maternal and fetal high-risk conditions during pregnancy, birth, and after delivery that require collaborative care. Nursing management for childbearing women planning a pregnancy, including contraception and abortion, and some common women’s health disorders are discussed. Included are concepts related to evidence-based practice, to effective management of resources, and to legal and ethical issues within reproductive health. (CSU)

N E 210L  Nursing Care of the Childbearing Family Clinical Laboratory  
(2 units)(No prerequisite. Corequisites: Nursing Education 102 and 210 or 203 and enrollment in the Registered Nursing Program. Twelve laboratory hours weekly for eight weeks.)  
This is the clinical laboratory that accompanies the Childbearing Family course. Students apply nursing concepts to the care of the family during the prenatal, labor and delivery, postpartum, neonatal, and women’s health periods in hospital and community settings. Students further develop clinical reasoning and technical skills to promote maternal and newborn health and to recognize and prevent complications. Student’s collaborate with other professionals in health care management, client education, and resolution of legal and ethical issues in reproductive health. (CSU)

N E 212  Nursing in Mental Health and Nursing of the Older Adult  
(2 units)(Prerequisite: Nursing Education 140. No corequisites. Four lecture hours weekly for eight weeks.)  
This course has two components—nursing in mental health and nursing of the older adult. Nursing in mental health focuses on the application of the nursing process and principles of therapeutic communication to the care of pediatric and adult clients with selected mental disorders. Included are concepts of psychobiology, treatment modalities, collaborative care, and legal and ethical issues within mental health. Nursing of the older adult focuses on nursing interventions for health promotion, the management of common geriatric syndromes, and care of the older adult with multi-system problems. Included are the effects of a large aging population on health care; legal, ethical and public policy issues affecting care of older adults; and end-of-life care for clients across the life span and their families. (CSU)
N E 212L  Nursing in Mental Health and Nursing of the Older Adult Clinical Laboratory

(2 units)(Prerequisite: Nursing Education 140. Corequisites: Nursing Education 212 and 102 or 103. Twelve laboratory hours weekly for eight weeks.)

This course is the clinical laboratory for Nursing Education 212. Students apply the nursing process to the care of pediatric and adult clients with selected mental disorders and to the care of older adults in acute and community settings. Students collaborate with other health care professionals in health care management, health education, and resolution of legal and ethical issues in mental and geriatric health. Students further develop therapeutic communication techniques and approaches for care of clients and families in crisis, individuals demonstrating challenging behaviors, and clients at end-of-life and their families. (CSU)

N E 214  Nursing III: Advanced Concepts in Mobility, Sensation, and Cognition

(2 units)(Prerequisite: Nursing Education 140. Corequisite: enrollment in the Registered Nursing Program Four lecture hours weekly for eight weeks.)

This course builds on concepts presented in Nursing I and Nursing II. The course takes a holistic approach and emphasizes nursing management of clients across the lifespan with acute and chronic diseases involving the neurological, musculoskeletal, sensory and immunological systems. Approaches to nursing and medical management during each phase of the disease process, starting with the onset of symptoms and diagnosis, through acute hospitalization and into post hospitalization care are presented. The student learns to apply the nursing process to the care of clients who are experiencing chronic pain and grief and loss. Students collaborate with the multidisciplinary health care team in all aspects of care. Students compare and contrast the role of the nurse in hospital care, home health care, rehabilitative care, and long term care. (CSU)

N E 214L  Nursing III: Clinical Laboratory-Advanced Concepts in Mobility, Sensation, and Cognition

(2½ units)(No prerequisite. Corequisite: Nursing Education 214 and 102 or 203 and enrollment in the Registered Nursing Program. Fifteen laboratory hours weekly for eight weeks.)

This is the clinical laboratory that accompanies the Nursing III: Advanced Concepts in Mobility, Sensation, and Cognition course. Students apply nursing concepts to the care of the client and family who are experiencing acute or chronic neurological, orthopedic or immunological problems in the hospital, community and rehabilitative settings. Students further develop clinical reasoning and technical skills to promote health and to recognize and prevent complications. Students collaborate with other professionals in health care management, client education, and resolution of legal and ethical issues in medical surgical nursing. (CSU)

N E 220A  Pharmacology for Nursing

(1 unit)(Prerequisite: Nursing Education 138. One and one-half lecture hours weekly for twelve weeks.)

The purpose of this course is to provide students with a sound understanding of the pharmacologic properties of drug classes, with special emphasis on the clinical application of drug therapy through the nursing process and clinical case studies. This course focuses on the mechanism of action, indications, dosage, and adverse effects of major drug classes and individual (prototype) drugs. A special emphasis is placed on the nursing responsibilities and the educational needs of persons receiving medication therapy. Classifications of medications covered include: analgesics, anti-inflammatory drugs, anesthetics, including drugs used in conscious sedation, sedatives, hypnotic drugs, anti-anxiety, antibiotics and miscellaneous drugs; antifungal and antiviral drugs, anti-asthmatic and glucocorticoid. Drugs affecting the gastrointestinal tract, insulin, oral hypoglycemic agents, and thyroid replacement. Vaccines, drugs affecting reproductive system, including female sex hormones and contraceptives. (CSU)

N E 236  Nursing Role: Level III — Complex Adaptation Problems in Physiological Mode: Oxygenation, Fluid and Electrolytes, and Urinary Elimination

(2 units)(Prerequisites: Nursing Education 230 or 232 or 234; plus 250A. Corequisite: Nursing Education 250B or 250C. Four lecture hours weekly for eight weeks.)

This course focuses on the nursing role as described in the Adaptation Model of Nursing Practice. The student continues to study the role of the nurse as provider of care for individuals experiencing complex adaptation problems, across the life span, in the physiologic mode: oxygenation - ventilation, oxygenation - circulatory - cardiac and peripheral, fluid and electrolytes, and elimination - urinary. (CSU)

N E 236L  Nursing Role: Level III – Complex Adaptation Problems in the Physiological Mode: Oxygenation, Fluid and Electrolytes, and Urinary Elimination Practicum

(2½ units)(No prerequisites. Corequisites: Nursing Education 236; and Nursing Education 203 or 204. Fifteen laboratory hours weekly for eight weeks.)

This clinical practicum is designed to be taken concurrently with Nursing Education 236. The nursing process is applied to the care of two or more individuals with complex adaptation problems in the physiologic mode. The course utilizes learning experiences in clinical settings. It is designed to integrate previous science, nursing course theory, and clinical practice. (CSU)
N E 238  Nursing Role: Member Within the Profession of Nursing  
(1 unit)(Prerequisites: Nursing Education 232 or 234 or 236. Sixteen lecture hours per semester.)  
This course focuses on providing the knowledge needed to assist the student to make the transition from nursing student to member within the profession of nursing. Students are introduced to ethical dilemmas and legal issues relative to nursing, resume writing and job searches, and professional regulations. Contemporary issues, trends in health care, community based nursing, and the application process for professional licensure will be discussed. (CSU)

N E 240  Nursing Role: Level IV — Clinical Transition and Manager of Client Care  
(1½ units)(Prerequisites: Nursing Education 230, 232, 234, 236, 250A and 250B. Twenty-six and one-half hours over six weeks.)  
This Nursing Role—Level IV advanced course has three components: the nursing role in the management of the care of the elderly, nursing role in the management of care delivery, and the nursing role in management for the individual, family, or group requiring care in a community health nursing setting.  
The first component explores current trends, public policy and ethical issues related to care of the elderly.  
The second component focuses on the role of the nurse as a manager of care that includes management/leadership theory as required of the nurse in a first level management position and using the Adaptation Model, concepts related to nursing management of individuals with common illnesses are reviewed. Clinical reasoning and nursing judgment skills will be further developed by using a team management simulation exercise. Students will be expected to apply previous knowledge of growth and development, cultural diversity, patient education, and the nursing process using medical-surgical case studies.  
The third component focuses on the role of the Associate degree nurse in community-based settings with an emphasis on basic concepts of community health resources and assessment of community health care needs. (CSU)

N E 240L  Nursing Role: Level IV — Clinical Transition and Manager of Client Care Practicum  
(3 units)(No prerequisite. Corequisite: Nursing Education 240. One hundred fifty-seven and one-half clinical hours.)  
This course is the clinical practicum designed to be taken with Nursing Education 240, an advanced Level IV Nursing Role course. The clinical practicum provides a realistic clinical experience that will prepare the second-year Associate degree student to function more effectively in the work environment. The course helps the student integrate the adaptation model; care for individuals or groups of patients in the clinical setting; communicate effectively with patients, family, and health care team members; develop skill in clinical practice and organizational skills; identify concepts related to the care of the elderly, and complete a first level managerial/leadership experience under the direct supervision of a preceptor, a specially selected and prepared non-faculty RN who will work with the student in a one-to one relationship. (CSU)

N E 249  Directed Study  
(1-3 units)(No prerequisite. One to three lecture hours weekly.)  
This course provides individual study in an area of nursing that is of special interest to the student. Study is under the guidance of a Registered Nursing instructor and evaluation is through conference and joint critique of the study process. May be taken more than once for credit. (CSU w/limit)

N E 250B  Pharmacology in Nursing  
(1 unit)(Prerequisite: Nursing Education 150. One lecture hour weekly.)  
This course focuses on the medication that a registered nurse administers. A psychological and physiological systems approach is used as the organizational framework. Concepts from the Adaptation Model of Nursing Practice are applied to planning for individuals receiving drug therapy.  
Students will use the nursing process in the discussion of selected pharmacological agents in prototype categories. Reflective thinking and reasoned clinical judgment processes will be used to determine safety of medications administered. Categories of medications discussed will include drugs affecting the cardiovascular system—sympathetic/parasympathetic nervous system, immunologic system, renal system, and visual and auditory system. Psychotherapeutic drugs, neoplastic disease and substance misuse and abuse will be explored. May be taken twice for credit. (CSU)

PHILOSOPHY COURSES

PHIL 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

PHIL 110  Introduction to Philosophy  
(3 units)(Prerequisite: English 98. Philosophy 110 is not a prerequisite for Philosophy 111. Three lecture hours weekly.)  
This course is an introduction to major thinkers, movements and ideas in the western philosophical tradition. May be taught as a distance learning course on the internet. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B, CAN PHIL 2

PHIL 111  Introduction to Ethics  
(3 units)(Prerequisite: English 98 or English 120. Philosophy 110 is not a prerequisite for Philosophy 111. Three lecture hours weekly.)  
This course introduces students to the major philosophical ethical theories and encourages them to apply these theories to situations in the contemporary culture. Students gain an increased understanding of the role that ethical reasoning plays in the maintenance of culture. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B, CAN PHIL 2
PHIL 112 Introduction to Logic  
(3 units)(Prerequisite: Eligibility for English 150. Three lecture hours weekly.)  
The purpose of this course is to introduce students to a discipline, which provides the necessary tools for distinguishing correct from incorrect reasoning. The focus of the course is upon evaluating arguments. The concept of language use, meaning, definition, inductive and deductive argument, and informal fallacies are explored during the first half of the course. The second half of the course concentrates on using the methods of symbolic logic to evaluate arguments, their validity, invalidity, and soundness. (CSU/UC)  
AA/AS Area E, CSU Area A-3, CAN PHIL 6

PHIL 115 History of Philosophy: Ancient  
(3 units)(Prerequisite: Eligibility for English 120. Philosophy 115 is not a prerequisite for Philosophy 116 or 117. Three lecture hours weekly.)  
This course investigates the origins of Western philosophy. The pre-Socratic philosophers are treated as well as the Hellenistic philosophers (Epicureans and Stoics). The course emphasizes the thought of Socrates, Plato, and Aristotle. Much of the discussion centers on a reading of the dialogues of Plato. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B, CAN PHIL 8, CAN PHIL SEQ A = Phil 115 + 116

PHIL 116 History of Philosophy: Medieval and Modern  
(3 units)(Prerequisite: Eligibility for English 120. Philosophy 116 is not a prerequisite for Philosophy 117. Three lecture hours weekly.)  
The first part of the course deals with the history of philosophy in the medieval period from St. Augustine to William of Ockham, stressing the classical authors of the period, such as St. Anselm and St. Thomas Aquinas. The rest of the course deals with the history of modern philosophy from Descartes through Hume, emphasizing the significance of the debate between the rationalists and the empiricists. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B, CAN PHIL 10, CAN PHIL SEQ A = Phil 115 + 116

PHIL 117 History of Philosophy: Late Modern to Contemporary  
(3 units)(Prerequisite: Eligibility for English 120. Philosophy 115 and 116 are not prerequisites for Philosophy 117. Three lecture hours weekly.)  
This course deals with the history of philosophy from the end of the eighteenth century to the contemporary period. It treats the continental metaphysicians (Kant, the German Idealists, and reactions against them, Marxism and Existentialism), American Pragmatism, Anglo-American philosophy, and Deconstruction. (CSU/UC)  
AA/AS Area C, CSU Area C-2, IGETC Area 3B

PHIL 139 Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

PHIL 249. Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU/UC w/limit)

PHYSICAL EDUCATION COURSES

Student Units and Hours for Activity Courses:  
Each activity course can be offered for ½ unit for two hours of activity, 1 unit for three hours of activity, and 2 units for six hours of activity.

P E 39 Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

P E 70-80 Rehabilitation Fitness  
These courses are designed to meet the physical education needs of physically disabled persons. A fitness program is developed for each student based upon the recommendation of physician. Emphasis is on the development of physical fitness, body tone, coordination; mental, emotional, and social attitudes necessary for improving and maintaining healthy, independent, daily living functions. Courses are repeatable for credit. (CSU/UC)  
AA/AS Area H  
Courses offered are:

P E 70. Adapted Aquatics  
(½ unit)(Prerequisite: Recommendation of student’s physician and completed medical form. Thirty-five laboratory hours per semester.)  
A class for any student who will benefit from a program of therapeutic aquatic exercise. Students enjoy the positive effects of the aquatic environment in a group exercise program. Swimming skills are not necessary. Includes aqua aerobic activities, cardiovascular training, water walk/jog programs, and lap swimming. This course is repeatable for credit.

P E 71. Adapted Aerobics  
(½ unit)(Prerequisite: Recommendation of student’s physician and completed medical form. Thirty-five laboratory hours per semester.)  
An aerobics class designed to meet the needs of students with physical disabilities. Students participate in a group exercise class (sitting or standing). Designed to improve cardiovascular endurance, strength, and flexibility. This course is repeatable for credit.
P E 72. Adapted General Conditioning
(½ unit) (Prerequisite: Recommendation of student’s physician and completed medical form. Thirty-five laboratory hours per semester.)
A course designed for students with physical disability. Students will be provided with a personalized fitness program based on individual needs. It will include the use of stationary bicycles, treadmill, weight equipment, and other adapted equipment. This course is repeatable for credit.

P E 74. Adapted Yoga
(½ unit) (Prerequisite: Recommendation of student’s physician and completed medical form. Thirty-five laboratory hours per semester.)
This is a safe yoga, breathing, and relaxation course designed for the physically disabled adult. Instruction includes safe total body stretches, diaphragmatic breathing, and deep relaxation training. Emphasis is on proper alignment, mind/body connection, and techniques to relieve stress and reduce pain. This course is repeatable for credit.

P E 75. Adapted Tai Chi
(½ unit) (Prerequisite: Recommendation of student’s physician and completed medical form. Thirty-five laboratory hours per semester.)
This class will introduce the art of Tai Chi, specifically the Yang Style Short Form and Long Form. Designed for the physically disabled adult, movements will be adapted to the needs of each student, so that all may participate successfully at their appropriate level. This course is repeatable for credit.

P E 79. Adapted Awareness through Movement
(½ unit) (Prerequisite: Recommendation of student’s physician and completed medical form. Thirty-five laboratory hours per semester.)
This class provides group lessons in the Feldenkrais group movement method. The class will focus on learning to move with awareness to improve functioning, balance, coordination, posture and well being. These lessons increase the capacity for easier and more effective movement in everyday activities. This course is repeatable for credit.

P E 80. Feldenkrais Functional Integration
(½ unit) (Prerequisite: Recommendation of student’s physician and completed medical form. Twenty-six and one-quarter laboratory hours per semester.)
This class provides individual sessions in the Feldenkrais Method of Functional Integration. It is a gentle noninvasive hands-on modality that helps provide the student with new ways of moving, thinking, sensing themselves, and overcoming limitations. This method helps one learn better balance, helps relieve pain, and improves everyday functioning. May be taken four times for credit.

P E 107 Human Biology
(3 units) (No prerequisite. Can be taken for credit as Physical Education 107 or Biology 107. However, credit will be awarded for only one course. Three lecture hours weekly.)
Introduction to the structure, function, and development of the human body. The course will give students the foundational concepts to explore personal and societal issues involving human biology as well as cover anatomy and physiology concepts useful in preparing for careers in wellness-related fields such as personal training, group fitness instruction, and massage therapy. Topics include an introduction to scientific methods of investigation and some elementary chemistry (no previous background necessary) as a basis for understanding human functions such as movement, digestion, circulation, reproduction and other systems. Some diseases and other causes of body malfunction will be discussed. (CSU/UC)
AA/AS Area A, CSU Area B-1, IGETC Area 5B

P E 116 Career Opportunities in Wellness and Fitness
(3 units) (No prerequisite. Three lecture hours weekly.)
This course is designed to increase awareness of the various career opportunities available in the field of wellness and fitness. Students will learn about the different academic pathways and certifications necessary to become a qualified professional in this field. Emphasis will be placed on formulating a realistic career goal in wellness and fitness. Current wellness and fitness professionals will be interactive guest speakers to aid students in this goal process. (CSU)

P E 119 Effective Teaching Strategies in Wellness and Fitness
(3 units) (No prerequisite. Advisory: Physical Education 116. Three lecture hours weekly.)
This course is designed to help students become more effective wellness and fitness professionals. Students will develop a toolbox of practical teaching, learning, and evaluation methods to increase their ability to convey their knowledge to others in this field and more successfully impact their future clients, students, or athletes. (CSU)

P E 120 Introduction to Sport and Exercise Psychology
(3 units) (No prerequisite. Three lecture hours weekly.)
This course will examine the psychological theories and techniques that are applied to sport, exercise and other achievement-related situations. This course will emphasize the enhancement of performance and personal growth of athletes, coaches, and exercise participants. Students will also learn mental skills that they will be able to transfer from sport and exercise settings to their everyday lives. (CSU)
P E 121  Personal Trainer Certification Course
(3½ units) (No prerequisite. Advisory: Biology 107 or Physical Education 107. Three lecture and one and one-half laboratory hours weekly.)

This course is designed to prepare students to meet the stringent certification standards set forth by the National Council of Strength and Fitness (NCSF). Through a variety of health and fitness training and evaluation techniques, students engage in an assortment of practical experiences, while developing a thorough understanding of core exercise concepts and principles. Practical scientific theory as well as hands-on application skills, which are necessary for the delivery of safe and effective health and fitness within the general population base, will be emphasized. Optional NCSF certification exam will be administered at the completion of the course. (CSU)

P E 122  Exercise for Adults with Special Needs
- Instructor Certification Training
(3 units) (No prerequisite. Three lecture hours weekly.)

This course is designed to train students interested in becoming qualified fitness leaders specializing in exercise with adults with special needs. Special needs include the frail elderly, individuals diagnosed with Parkinson’s disease and diabetes, the physically challenged, etc. Students may take the entire class for credit only or opt to take an additional internship in this field to earn certification as an Exercise Leader for Adults with Special Needs. (CSU)

P E 124  Athletic Coaching Education: A Positive Coaching Alliance Certification.
(2 units) (No prerequisite. Two lecture hours weekly.)

This course is designed to prepare to meet certification standards set forth by the Positive Coaching Alliance (PCA). Students will build professional and career coaching capabilities, better leadership skills, better functioning teams, and more change-capable organizations. The most up-to-date, research-based strategies, tools and techniques in Positive Coaching will be taught. A deeper, more focused evolution of sportsmanship, termed by PCA as “Honoring the Game”, is the foundation upon which this course and Double-Goal Coaching is built. Students will learn to become Double-Goal Coaches™ that strive to win and, even more importantly, use sports to teach life lessons through Positive Coaching. (CSU)

P E 125A  Fitness
(No prerequisite.)

Will include a program of general fitness techniques involving the following areas of training: aerobic evaluation and training, basic running, walking and jogging techniques, flexibility training, and strength training. Open to all levels. (CSU/UC)

AA/AS Area H

P E 125C  Aerobic Fitness.
(No prerequisite.)

Aerobic techniques derived from dance, yoga, and body awareness. The format of each class will include a 40-minute aerobic routine followed by exercises designed to stretch, strengthen, and develop the body. (CSU/UC)

AA/AS Area H

P E 125D  Fitness, Intercollegiate Sports
(No prerequisite.)

This course is designed to teach students the various training forms needed for each sport. Strength training, flexibility, plyometrics, injury prevention, injury rehabilitation, aerobic training, and nutrition. This course will be open to anyone planning to participate in any intercollegiate sports program at the College of Marin. (CSU/UC)

AA/AS Area H

P E 125F  Fitness, Aquatic Calisthenics
(No prerequisite.)

Fitness program emphasizing the advantages of water resistance and buoyancy for the development of endurance, strength, and flexibility. (CSU/UC)

AA/AS Area H

P E 125H  Fitness, Cross Training
(No prerequisite.)

This course will introduce basic fitness principles. Students will participate in a variety of endurance, strength, speed, and flexibility activities designed to improve fitness and sports performances. Activities may include running, race walking, swimming, interval training, weight lifting, and deep water running. (CSU/UC)

AA/AS Area H

P E 125K  Fitness, Walking
(No prerequisite.)

This course is one of the most popular forms of exercise today. It offers great cardiovascular results, reduces stress, and can lower body weight. Students will learn proper technique, goal setting, and stay motivated while participating in an exercise program that will lead to a lifetime of better health. (CSU/UC)

AA/AS Area H

P E 132  Directed Activities
(No prerequisite.)

Offered for the enjoyment of the student interested in furthering physical and mental well-being through meaningful experiences in physical activities. Activities offered will vary according to facilities available. All activities shall have carry-over values beneficial beyond the time element of this course. (CSU/UC)

AA/AS Area H

P E 139  Selected Topics
(½-6 units) (Please see Selected Topics category.) (CSU/UC w/limit)
P E 143  Basic Athletic Injuries
(3 units)(No prerequisite. Corequisite: Physical Education 107 or Biology 107. Three lecture hours weekly.)
Designed to show students the methods of prevention, recognition, evaluation, rehabilitation, reconditioning, taping, and immediate care of athletic injuries to the upper and lower extremities. This course will benefit coaches from all sports, students interested in the athletic training profession, and the physically active individual. Comprehension of anatomy, mechanism-of-injury, and pathology are stressed. (CSU/UC)

P E 156  Instructional Lap Swimming
(Prerequisite: Knowledge and demonstration of efficient swimming skills.)
Designed to provide the student with the opportunity to develop and maintain cardiovascular fitness through swimming at all skill levels. Instruction in recreational and competitive swim strokes, starts, turns, interval, sprint and distance training. Individualized workouts will be available. Information on competing in the U.S. Master's Swimming Program will be available for those interested in the competitive aspects of swimming. (CSU/UC) AA/AS Area H

P E 164  Sports Conditioning
(No prerequisite.)
This course is designed to instruct students in the various forms of conditioning and training techniques used in different sports. Basic to the course are proper muscle balance, breath control, aerobic training, flexibility, nutrition, time management, injury prevention, and strength training. (CSU/UC) AA/AS Area H

P E 167  Volleyball
(No prerequisite.)
Offers the student instruction in fundamentals including passing, serving, hitting, and setting. This course is designed to promote team play by emphasizing rules and strategies. (CSU/UC) AA/AS Area H

P E 169  Weight Training
(No prerequisite.)
This course is designed to teach students the basic principles of training with weight machines and free weights. Students are taught the proper and safe way to train with apparatus and free weights. Flexibility and injury protection are also taught. (CSU/UC) AA/AS Area H

P E 173A  Yoga, Beginning
(No prerequisite.)
Involves the physical aspects of yoga, basic yoga poses, and correct body alignment. The emphasis will be on developing strength, flexibility, endurance, and grace. (CSU/UC) AA/AS Area H

Intercollegiate Athletic Program:
An extensive intercollegiate athletic program for both men and women is available. This program includes the following sports that may be taken four times for credit. (CSU/UC) AA/AS Area H

P E 175  Baseball
(Prerequisite: Team member.)
P E 176  Basketball (Men and Women)
(Prerequisite: Team member.)
P E 178  Football
(Prerequisite: Team member.)
P E 180  Soccer (Men and Women)
(Prerequisite: Team member.)
P E 181  Softball (Women)
(Prerequisite: Team member.)
P E 183  Swimming and Diving (Men and Women)
(Prerequisite: Team member.)
P E 185  Track and Field (Men and Women)
(Prerequisite: Team member.)
P E 187  Water Polo (Men and Women)
(Prerequisites: Team member. Perform the crawl, breaststroke, and backstroke continuously for 100 meters each.)

Those students who wish to try out for college athletics must enroll in the physical education activity class of their sport. If a student plans on participating in an intercollegiate sport, he/she must be actively and continuously enrolled in a minimum of 12 units during his/her season of sport including 2 units for his/her intercollegiate sport. Of the 12 units, at least 9 shall be attempted in courses counting toward the Associate degree, remediation, transfer, and/or certification as defined by the College catalog. Additionally, a student-athlete must have on file with the Athletic Counselor an educational plan by his/her second semester of attendance.

A prerequisite of “Team Member” is required for Physical Education 175 through 185. For Physical Education 187, the prerequisite is to perform the crawl, breaststroke, and backstroke continuously for 100 meters each.

A student, who is not sure of any of the requirements mentioned above or, who has previously participated in any intercollegiate athletics at another college, should check with the Athletic Director to clarify eligibility to further participate at this school.

P E 190A  Baseball Theory I
(2-3 units)(No prerequisite. One lecture and three laboratory hours weekly for two units; and one lecture and six laboratory hours weekly for three units.)
An intensive course designed to train persons in the development of a baseball program at any level. Emphasis is on philosophy and objectives. (CSU/UC)
P E 191A  Soccer Theory
(2-3 units)(No prerequisite. One lecture and three laboratory hours weekly for two units; and one lecture and six laboratory hours weekly for three units.)
This course is designed for the intermediate/advanced soccer player who is looking to further his or her knowledge of the sport. The primary focus of the class will be the history of the game of soccer, the game's evolution, defensive tactics, offensive tactics, training methods, current trends and rules of the game. The course will also include participation in strength training, speed and agility and various soccer training session themes. (CSU/UC)

P E 192A  Basketball Theory I
(2-3 units)(No prerequisite. One lecture and three laboratory hours weekly for two units; and one lecture and six laboratory hours weekly for three units.)
This course is designed to help each student understand the basic fundamentals of playing and coaching basketball. Individual and team skills development will be stressed. (CSU/UC)

P E 193A  Swimming Theory I
(2-3 units)(No prerequisite. One lecture and three laboratory hours weekly for two units; and one lecture and six laboratory hours weekly for three units.)
An intensive course designed to help each student understand and utilize the fundamentals and theory of training and competing in the sport of swimming. The emphasis of the class is the development of individual technique and skills. (CSU/UC)

P E 195A  Football Theory, Offensive
(2-3 units)(No prerequisite. One lecture and three laboratory hours weekly for two units; and one lecture and six laboratory hours weekly for three units.)
This course is designed to develop an understanding of offensive football and the kicking game. It will give students the opportunity to learn and practice some of the fundamental skills involved in the game of football. (CSU/UC)

P E 195B  Football Theory, Defensive
(2-3 units)(No prerequisite. One lecture and three laboratory hours weekly for two units; and one lecture and six laboratory hours weekly for three units.)
This course is designed to develop an understanding of defensive football and the punting game. It will give students the opportunity to learn and practice some of the fundamental skills involved in the game of football. (CSU/UC)

P E 215  Advanced First Aid/First Responder
(3 units)(No prerequisite. Three lecture hours weekly.)
This first responder course will teach the basics of good patient care and the skills needed to deliver appropriate care to the victim of an accident or a sudden illness until more highly trained emergency personnel arrive. Upon successful completion of the course. Certificates will be awarded for the First Responder and CPR for the Professional Rescuer. This course is a prerequisite for the Emergency Medical Technician Program. May be taken four times for credit. Can also be offered in a distance learning format. (CSU/UC)

P E 216A  American Red Cross Lifeguarding
(1½ units)(Prerequisites: Student must be able to perform the following pretest: (1) Tread water continuously in the diving pool for two minutes using legs only; (2) Swim 500 yards continuously with no time limit using the following strokes (crawl stroke, breast stroke, side stroke) for at least 100 yards each; (3) Submerge to a minimum depth of seven feet and retrieve a ten pound object and return to the surface with the object at no time limit. One lecture and two laboratory hours weekly.)
This course is designed for those desiring to fulfill the requirements for the American Red Cross Lifeguarding Certification. This course is repeatable for credit. (CSU/UC)
AA/AS Area H

P E 249  Directed Study
(1-3 units)(Please see Directed Study category.) (CSU/UC w/limit)

P E 267  Advanced Volleyball.
(Prerequisite: Students must be competent in all the fundamentals such as serving, passing, setting, and hitting.)
This course offers students advanced instruction in offensive and defensive strategies. (CSU/UC)
AA/AS Area H

PHYSICS COURSES
There are three levels of general physics offered which usually cover the same topics. The major differences in these levels are the mathematical prerequisites and the number of semesters of the sequence. The three levels are:

Physics 108ABC — A sequence of courses designed for majors such as biology, pre-med, and architecture.

Physics 110 — A nonmathematical general education course for nonscience majors.

Physics 207ABC — A sequence of courses designed for majors such as engineering, physics, and chemistry.

PHYS 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)
PHYS 108A General Physics I  
(5 units)(Prerequisite: Math 104. Advisory: Math 121. Four lecture and three laboratory hours weekly.)

This course presents the basic laws and concepts of mechanics, heat, sound, and the properties of matter. Coursework emphasizes problem solving and laboratory investigations. (CSU/UC) AA/AS Area A, CSU Area B-1, IGETC Area 5A, CAN PHYS 2, CAN PHYS SEQ A = Phys 108A + 108B

PHYS 108AC General Physics I – Calculus Supplement  
(1 unit)(Prerequisite: Physics 108A or concurrent enrollment and completion of Math 121. One lecture hour weekly.)

Covers basic concepts of kinematics, forces, rotational motion, fluids, oscillations, and waves, heat, and thermodynamics with a calculus based set of problem assignments. (CSU/UC) CSU Area B-1

PHYS 108B General Physics II  
(5 units)(Prerequisite: Physics 108A. Four lecture and three laboratory hours weekly.)

This course presents the basic laws and concepts of electricity and magnetism including simple AC and DC circuits, light and its geometrical and physical properties, and atomic and nuclear physics. Course work emphasizes problem-solving and laboratory investigations. (CSU/UC) CAN PHYS 4, CAN PHYS SEQ A = Phys 108A + 108B

PHYS 108BC General Physics II – Calculus Supplement  
(1 unit)(Prerequisite: Physics 108B or concurrent enrollment and completion of Math 122. One lecture hour weekly.)

An introduction to the fundamental concepts of electricity, magnetism, light, and modern physics with a calculus based set of problem assignments. (CSU/UC)

PHYS 110 Introductory Physics  
(3 units)(No prerequisite. Three lecture hours weekly.)

An introduction to the development and manifestation of the basic physical laws, the process of scientific inquiry and discovery, and the relationship and responsibilities of science to society. (CSU/UC) AA/AS Area A, CSU Area B-1, IGETC Area 5A

PHYS 139 Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

PHYS 207A Mechanics and Properties of Matter  
(5 units)(Prerequisites: Math 123 and 124. Math 124 may be taken concurrently. Four lecture and three laboratory hours weekly.)

This course develops the physical laws, concepts, and mathematical tools needed to describe motion and the action of forces. Central ideas include Newton's laws of motion, conservation of energy, and conservation of linear and angular momentum. Coursework emphasizes problem solving. (CSU/UC) AA/AS Area A, CSU Area B-1, IGETC Area 5A, CAN PHYS 8, CAN PHYS SEQ B = 207A + 207B + 207C

PHYS 207B Electricity and Magnetism  
(5 units)(Prerequisites: Physics 207A and Math 223. Math 223 may be taken concurrently. Four lecture and three laboratory hours weekly.)

This course develops both microscopic and macroscopic descriptions of electricity and magnetism. The microscopic viewpoint is described by Maxwell's four equations, which relate electric and magnetic fields to electric charges and currents, and by Coulomb's law. The macroscopic description involves simple AC and DC circuit analysis, which includes Ohm's law and the concepts of resistance, capacitance, inductance, impedance, and electrical resonance. (CSU/UC) CAN PHYS 12, CAN PHYS SEQ B = Phys 207A + 207B + 207C

PHYS 207C Heat, Light, Sound, and Modern Physics  
(5 units)(Prerequisites: Physics 207A and Math 223. Math 223 may be taken concurrently. Four lecture and three laboratory hours weekly.)

This course develops the concepts and laws describing four different but related topics. The major ideas include the first and second laws of thermodynamics, kinetic theory of gases, interference and diffraction of light and sound waves, optical instruments, atomic structure of matter, nuclear physics, and a brief introduction to quantum theory. (CSU/UC) CAN PHYS 14, CAN PHYS SEQ B = Phys 207A + 207B + 207C

PHYS 249 Directed Study  
(1-3 units)(Limit to Enrollment: One physics or astronomy course with a grade point average of 3.0 or higher. Prior arrangement with instructor is necessary.)

A course designed to give the student an opportunity to participate in a research program. (CSU/UC w/limit)
POLITICAL SCIENCE COURSES

POLS 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

POLS 100  American Political Institutions
(3 units)(No prerequisite. Three lecture/discussion hours weekly.)
This course is a survey of American political institutions, roles, processes and problems at the national, state, and local level. Emphasis is on the political values of our society and how these values are reflected in institutions, processes, and policies. Students learn to question, analyze, and interpret public policy and current events and discover how they, as citizens, can help shape and influence government policy. (CSU/UC)
AA/AS Area B or F, CSU Area D-8, IGETC Area 4, CSU U.S. History, Constitution, and American Ideals

POLS 101  Introduction to the Government of the United States
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is an introduction to political science as a survey of American government. Students learn methods of political analysis and the application of these methods to the study of American government. It is an introduction to the principles and problems of government in the United States, emphasizing the national government but providing an understanding of government at the state and local level as well. Particular attention is paid to the dynamics, which make the principles meaningful, and the machinery move. Students will develop insights into the clash of ideas in American politics and how they can influence political outcomes. Political Science 101 is recommended over Political Science 100 for majors in prelegal, social sciences, liberal arts, and teaching. Can also be offered in a distance learning format. (CSU/UC)
AA/AS Areas B or F, CSU Area D-8, IGETC Area 4, CAN GOVT 2, CSU U.S. History, Constitution, and American Ideals

POLS 102  Comparative Political Systems
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is designed to help students gain knowledge of the world's diverse political structures and practices. It focuses on specific countries and general concepts used to interpret the key political relationships found in virtually all national politics. (CSU/UC)
AA/AS Area B, CSU Area D-8, IGETC Area 4

POLS 103  Political Theory
(3 units)(No prerequisite. Three lecture hours weekly.)
An introduction to the history of political thought from Plato to the present. Present examples of the theory and practice of politics and the description and analysis of political behavior will be related to great political thinkers of the past. New approaches to solve political and social problems will be discussed. (CSU/UC)
AA/AS Area B, CSU Area D-8, IGETC Area 4

POLS 104  International Relations
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is designed to introduce students to the theory and practice of international relations. The course identifies the various players in global politics and describes and explains their behavior and the structure of the international system in which they operate. Included is an examination of not only the traditional subjects of international relations, such as power, nationalism, diplomacy, and war, but also those transnational factors that have come to play a critical role in an increasingly interdependent world, such as immigration, trade and economic/financial activities, the environment, human rights, and terrorism. (CSU/UC)
AA/AS Area B, CSU Area D-8, IGETC Area 4

POLS 117  The Middle East: A Political Perspective
(3 units)(No prerequisite. Three lecture hours weekly.)
A survey of the major political developments in the Middle East in their historical and cultural context from the rise of Islam to the present emphasizing the developments of the twentieth century. (CSU/UC)

POLS 125  Research Methods and Term Papers in the Social Sciences
(3 units)(No prerequisite. Advisory: Competence in written language skills comparable to eligibility for English 150. Students may receive credit for this course as Economics 125, Ethnic Studies 125, History 125, Political Science 125 or Social Science 125. However, credit will be awarded for only one discipline. Three lecture hours weekly.)
This course focuses on the elements of critical thinking and methods of research in the social sciences and develops skills required to organize such thought and research into effective, college level presentations. Various social science faculty members will offer their expertise to students on an individual basis as they develop their presentations. Students are encouraged to select areas of research from other courses taken during the semester or from areas of special interest including politics, history, economics, education, women's studies, ethnic studies, current issues, and issues of community concern.
Poltical Science 125 is designed for students who want the research and term paper skills, but are not working for satisfaction of the Critical Thinking Requirement (A, III) for the Bachelor of Arts degree at California State University. Social Science 125 does meet that requirement. (CSU/UC)
POLS 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

POLS 201  Understanding Globalization: The Impact of Social, Political, and Economic Change  
(3 units)(No prerequisite. Can be taken for credit as Political Science 201 or Behavioral Science 201 or Economics 201. However, credit will be awarded for only one discipline. Three lecture hours weekly.)

   The world is becoming more integrated and interdependent, heightening the need for greater understanding of the impact of globalization on the economy, politics, and society. This interdisciplinary team-taught course explores the new wave of global political, economic, and social change and the opportunities and challenges it brings to states, institutions, and individuals. Focus is upon what the individual will need to know and understand to be an effective participant in these rapidly changing global phenomena. (CSU/UC)  
   AA/AS Area B, CSU Area D-7, IGETC Area 4

POLS 203  Understanding Terrorism  
(3 units) (No prerequisite. Three lecture hours weekly.)

   Using lecture, discussion, and video, this course will provide students with an understanding of terrorism from historical, political, ideological, and religious perspectives. The course examines the motivational and organizational aspects of modern terrorism, as well as the strategic and tactical responses to the terrorist threat, and the impact of terrorism on the political, economic and legal/constitutional integrity of the sovereign state. The course will employ the expertise of specialists in the fields of psychology, philosophy, sociology, and law. This course is available to both credit and adult education students. (CSU)  
   AA/AS Area B

POLS 215  Survey of Current Events and Issues  
(3 units)(No prerequisite. Can be taken for credit as Political Science 215, Economics 215, or Social Science 215. However, credit will be awarded for only one discipline. Three lecture hours weekly.)

   An opportunity to critically examine and discuss significant world developments and to attempt to understand the sources of those developments. Each student will have an opportunity to focus on issues of particular interest and to share that information with the group. When possible, informed participants in world and national events will meet with the class to share their insights. (CSU/UC w/limit)

POLS 220  American Foreign Policy  
(3 units)(No prerequisite. Three lecture hours weekly.)

   A survey of the forces involved in the formation of American foreign policy since World War II. United States relations with the Soviet Union, China, Europe, Southeast Asia, the Middle East, and other nations will be explored, with special emphasis on contemporary problems. (CSU/UC)  
   AA/AS Area B, CSU Area D-8, IGETC Area 4

POLS 249  Directed Study  
(1-3 units)(No prerequisite.)

   Directed Study may consist of readings, research, or projects under the supervision of a full-time Social Science Department instructor. May be taken more than once for credit. (CSU/UC w/limit)

PSYCHOLOGY COURSES

PSY 39  Selected Topics (Nondegree Applicable)  
(½-6 units)(Please see Selected Topics category.)

PSY 110  Introduction to Psychology  
(3 units)(No prerequisite. Three lecture hours weekly.)

   This course will examine traditional areas of psychological investigation from a scientific perspective. Topics include scientific methodology, human development, personality, psychological measurement, psychopathology, psychotherapy, motivation, perception, and social influences on behavior, cognitive processes, learning, and biological basis of behavior. Instructor may recommend a community assignment of students to schools, social agencies, or other settings where psychological principles and skills are being applied. Can also be offered in a distance learning format. (CSU/UC)  
   AA/AS Area B, CSU Area D-9 or E, IGETC Area 4, CAN PSY 2

PSY 111  Personality Dynamics and Effective Behavior  
(3 units)(No prerequisite. Students may not receive credit for both Psychology 111 and 116. Three lecture hours weekly.)

   This course will present the major theoretical and research perspectives on personality description, development, dynamics, and change. A major focus of the course is how these theories and research findings can be effectively applied in our own lives. The topics of personality description include the dimensions of personality traits, and the development of tests to measure these traits in individuals. The topics of personality dynamics include the factors that influence the day-to-day functioning of individuals, including conscious and unconscious motivations, self-concept, self-esteem, and coping mechanisms. The topics of personality development focus on how personality is formed, including biological factors as well as childhood and adult experiences within families, work, and relationships. Developmental factors also include considerations of gender, and social and cultural influences. The topics of personality change consider such factors as therapy, growth, and maturational perspectives on personality. The content is presented through a combination of lecture, discussion, and activities. (CSU/UC)  
   AA/AS Area B, CSU Area D-9 or E, IGETC Area 4
PSY 112  Child and Adolescent Psychology  
(3 units)(No prerequisite. Students may not receive credit for both Psychology 112 and 114. Three lecture hours weekly.)

This course emphasizes the understanding of children and adolescents through the study of the psychological and developmental changes they undergo. Course content will include an examination of physiological, social/emotional, cognitive, and personality development from birth through adolescence. Individual and normative views of child and adolescent psychology will be utilized.

Class topics usually include but will not be limited to: theories of social change and child development, learning and conditioning processes, moral growth and conscience development, the effects of various family environments, education, child abuse, infant development, peer relations, puberty, and methods of studying children. (CSU/UC)
AA/AS Area B, CSU Area D-9 or E, IGETC Area 4

PSY 114  The Psychology of Human Development: Lifespan  
(3 units)(No prerequisite. Students may not receive credit for both Psychology 112 and 114. Three lecture hours weekly.)

This course will examine human development from conception through old age. Physical, intellectual, social, and personality development will be included. Emphasis will be placed on the continuity of development as well as on individual differences. (CSU/UC)
AA/AS Area B, CSU Area E

PSY 116  Theories of Personality  
(3 units)(No prerequisite. Students may not receive credit for both Psychology 111 and 116. Three lecture hours weekly.)

A survey of the major theories of personality. Psychoanalytic, interpersonal, humanistic, behavioral, social-cognitive, and trait theories will be covered. (CSU/UC)
AA/AS Area B, CSU Area D-9, IGETC Area 4

PSY 120  Psychology of Women  
(3 units)(No prerequisite. Three lecture hours weekly.)

A study of the psychology of contemporary women focusing upon the identifying factors which influence their roles, e.g., the socialization process and sex role expectations; contrasting sex roles in American culture with sex roles in other cultures, and reviewing the major studies of psychological sex differences. This class is open to all students. (CSU/UC)
AA/AS Areas B & G

PSY 125  Psychology of Violence  
(3 units)(No prerequisite. Three lecture hours weekly.)

This course will examine the psychological bases of violence against self, intimates, associates, and strangers in such diverse settings as the home, workplace, school, streets, and other public places. Theories explaining violent behavior as the result of biology, of shame and low self-esteem, of failures of attachment, empathy, and guilt, of media violence, and of prejudice and hatred will be examined. The roles of prisons, drugs, guns, poverty, racism, sexism, homophobia, and mental illness in precipitating violence will be assessed. A major emphasis will be placed on possible prevention and treatment strategies, including childrearing practices, biomedical interventions, psychotherapy, education, and public policy decisions. (CSU)

PSY 139  Selected Topics  
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

PSY 140  Marriage, Family, and Intimate Relationships  
(3 units)(No prerequisite. Can be taken for credit as Psychology 140 or Sociology 140. However, credit will be awarded for only one course. Three lecture hours weekly.)

This course is designed to give the student a theoretical and practical understanding of the variety of intimate social and family relationships existing in contemporary society. While the course will cover traditional marriage and nuclear family relationships, emphasis will also be placed upon other life-styles, e.g., singles, gay, blended families, etc. Within the context of each life-style, topics such as communication, social roles, sexual behavior, decision making, child rearing, and everyday life interaction will be covered. (CSU/UC)
AA/AS Area B, CSU Area D-7 or E, IGETC Area 4

PSY 142  Growing Older: Physical, Psychological, and Social Aspects of Aging  
(3 units)(No prerequisite. Can be taken for credit as Psychology 142 or Health Education 142. However, credit will be awarded for only one course. Three lecture hours weekly.)

This course will examine the aging process in the contemporary world. Topics explored will include physical changes, psychological changes, and social changes occurring as people age; theories regarding why these changes occur, and how to maximize potential in these areas. Other topics will be work and retirement, death and bereavement, local and national resources for aging individuals, and myths associated with aging. (CSU/UC)
AA/AS Area B, CSU Area E, IGETC Area 4
PSY 145  Psychology in Modern Life  
(3) (No prerequisite. Three lecture hours weekly.)

This course examines the psychological, physiological, and socio-cultural factors involved in personality development, interpersonal relationships, and social processes. The course will teach students important psychological principles, concepts, skills, and research, with the goals of improving the quality of our own lives and relationships. The course is intended to be a useful course for students who want a general understanding of psychology and its applications to living in the twenty-first century. The emphasis will be on helping students acquire knowledge, insights, and skills that they can apply to their own lives, particularly in areas such as life satisfaction, personal satisfaction, careers, relationships, health, and stress management. The course will provide an opportunity for students to develop an awareness, understanding, and appreciation of human diversity. (CSU)  
AA/AS Area B, CSU Area D-9

PSY 204  Abnormal Psychology  
(3 units)(No prerequisite. Advisory: Psychology 110. Three lecture hours weekly.)

Principles of general psychology applied to the field of psychopathology. A survey of the major diagnostic disorders together with the theories of the cause of mental illness. A survey of the major psychotherapeutic methods in relation to their practical and theoretical value. This course is designed as an introduction to abnormal psychology and is directed toward those with an interest in applied psychology. (CSU/UC)  
AA/AS Area B, CSU Area D-9, IGETC Area 4

PSY 205  Introduction to Research Methods and Data Analysis in Psychology  
(3 units)(Prerequisite: Psychology 110. Advisory: Mathematics 115 or Statistics 115. Course may be taken as Psychology 205 or Sociology 205, but credit will be given for only one course. Three lecture hours weekly.)

This course prepares students for upper-level division work in the psychology and sociology majors. The course examines the following topics: conducting Internet and library research; formulating testable hypotheses; methods of examining processes (qualitative and descriptive research methods); methods of examining causality (simple, complex, and factorial experimental research designs); methods of examining the power of social events (quasi experimental and time series research designs); and methods of examining the associations between phenomena (simple and complex forms of correlational analysis). In addition the course trains students in the appropriate selection and use of nonparametric and parametric statistics. (CSU/UC)  
AA/AS Area B or E, CSU Area D-9, IGETC Area 4

PSY 230  Social Psychology  
(3 units)(No prerequisite. Can be taken for credit as Psychology 230 or Sociology 230. However, credit will be awarded for only one course. Three lecture hours weekly.)

This is an interdisciplinary course covering sociological and psychological approaches to important social phenomena. The diverse topics covered will be selected from the following: altruism; attitude formation and attitude change; conformity; person perception and social labeling; reference groups; social conflict and conflict resolution; human aggression; intergroup processes; intragroup processes; interpersonal attraction; social networks, statuses and roles; and the social development of the self. The course also covers the research methods and theoretical orientations found in sociological and psychological social psychology. (CSU/UC)  
AA/AS Area B, CSU Area D-7, IGETC Area 4

PSY 249  Directed Study  
(1-3 units)(Please see Directed Study category.) (CSU/UC w/limit)

PSY 251  The Brain: Mind and Body  
(3 units)(No prerequisite. Three lecture hours weekly.)

This class explores the basic brain processes underlying the functioning of the human mind. Among the topics to be discussed are the following: brain development and aging, learning disorders, basic synaptic functioning, psychopharmacology, stress and the immune system, learning and memory, sleep, mood disorders, schizophrenia, language, motor and sensory systems, sexuality, and consciousness. (CSU/UC)

PSY 252  Seminar and Fieldwork Experience  
(3 units)(No prerequisite. Corequisite: Psychology 110 or 112 or Sociology 110. Psychology 252 and Behavioral Science 252 are equivalent. Credit is given for only one course. One and one-half lecture and four and one-half fieldwork hours weekly.)

This course is designed to give students meaningful participation in a psychologically related community service agency in order to understand the applications of psychological principles, theories, and concepts. With the mutual consent of student and instructor each student is placed in a school, social agency, special education program, mental health agency, or community organization and works under the direct supervision of someone with a degree, credential, or demonstrated expertise in psychology or sociology. The one and one-half hour weekly seminar provides students and instructor the opportunity to present observations, discuss perceptions, and apply relevant theories and concepts to their fieldwork participation. May be taken twice for credit. (CSU)
REAL ESTATE COURSES

REAL 39 Selected Topics (Nondegree Applicable)
(½-6 units) (Please see Selected Topics category.)

REAL 115 Real Estate Principles
(3 units) (No prerequisite. Three lecture hours weekly.)
This fundamental real estate course emphasizes the basic understanding, background, and terminology necessary for advanced study in specialized courses of real estate. This course is required for those preparing for the real estate salesperson's license examination. It will also apply toward the California Department of Real Estate's educational requirements for the broker's examination. It may count toward the course requirements for the California Real Estate Appraiser's license. (CSU)

REAL 116 Real Estate Practice
(3 units) (No prerequisite. Advisory: Real Estate 115. Three lecture hours weekly.)
This course deals with the day-to-day practice at a real estate office. It includes understanding the agency obligations inherent in a real estate agency, and the actualization of that agency in the listing, selling, financing, and managing of real property. Also included are basic listening and negotiation skills as they relate to the real estate industries. Tax implications and investment counseling are touched on as well, providing the student with a basic grounding in the broad areas of real estate practice. It is a required course for all licensees in their first 18 months of licensing. (CSU)

REAL 117 Legal Aspects of Real Estate
(3 units) (No prerequisite. Advisory: Real Estate 115. Three lecture hours weekly.)
A study of California real estate law covering agency, contracts, disclosures, landlord/tenant disputes, development and the environment, property taxes, common interest subdivisions, escrow and title insurance boundary disputes, and the effects of trusts and bankruptcy on property transactions. This course qualifies as one of those required for completion of the sales license provisional status and is required for application of the broker's license examination. (CSU)

REAL 139 Selected Topics
(½-6 units) (Please see Selected Topics category.) (CSU w/limit)

REAL 210 Real Estate Finance
(3 units) (No prerequisite. Advisory: Real Estate 115. Three lecture hours weekly.)
Emphasizing real estate finance, this course includes lending policies and problems in financing transactions in residential, apartment, commercial, construction, and special purpose properties. Methods of financing properties are studied. The course applies toward the California Department of Real Estate's educational requirements for the real estate broker's license examination and the sales license provisional 18-month requirements. (CSU)

REAL 212 Real Estate Appraisal I
(3 units) (No prerequisite. Three lecture hours weekly.)
This introductory course covers the purposes of appraisals, the appraisal process, and the different approaches, methods, and techniques used to determine the value of various types of property. Emphasis will be on residential and single unit properties. Applies toward the educational requirement for real estate broker's examination and fulfills the requirement as one of two classes in addition to "Real Estate Principles" for the real estate sales license. It also applies toward the educational requirements for an appraiser's license. (CSU)

REAL 215 Real Estate Economics
(3 units) (No prerequisite. Advisory: Real Estate 115. Three lecture hours weekly.)
This course provides the means to interpret economic activities for the benefit of property owners, investors, and real estate professionals. It includes relating business and real estate cycles to forecasting land use and capital growth patterns; the clash of land use controls; the dynamics of community demographics; and property investment alternatives. It is required for real estate broker's license applications and partially satisfies the 18-month provisional real estate sales license requirements. (CSU)

REAL 217 Advanced Real Estate Appraisal II
(3 units) (No prerequisite. Advisory: Real Estate 212. Three lecture hours weekly.)
This course addresses the appraisal of multi-residential housing and the techniques used in the appraisal of income producing properties. The “Uniform Standards of Professional Appraisal Practice” are emphasized along with other government regulations affecting the appraisal process. (CSU)

REAL 218 Property Management
(3 units) (No prerequisite. Advisory: Real Estate 115. Three lecture hours weekly.)
Introducing property management concepts, this course emphasizes effective tools and methods of managing income property. Topics include landlord/tenant relations, contracts, income statements and balance sheets, records, employment regulations, income property investment principles, and management specialties. (CSU)
REAL 219  Escrows
(3 units)(Prerequisite: Real Estate 115. Three lecture hours weekly.)
This course emphasizes the methods and techniques of escrow procedure, focusing on the title insurance industry and its effect in the ownership and marketing of real property. Included is a detailed study of the history of title insurance, escrows, and local as well as regional practices. Numerous title reports are reviewed in order to assist students in understanding these complex documents and provide experience in explaining those elements that impact title to their clients in real estate transactions. This course can enhance a student's ability to seek employment in both the escrow and title industries. (CSU)

REAL 220  California Loan Brokering
(3 units)(No prerequisite. Advisory: Real Estate 115. Three lecture hours weekly.)
This course introduces students to the complex laws and requirements affecting the origination and documentation processes for real estate loans. This course is designed for those already involved in a real estate career or for those considering a career in the real estate loan marketplace. It is also a valuable course for borrowers so that they can understand the loan application process. This course will meet Department of Real Estate (DRE) requirements for both basic education toward an original Sales or Broker's License as well as meet DRE requirements for continuing education. It can also be used by real estate appraisers for continuing education for the OREA. (CSU)

REAL 249  Directed Study
(1-3 units)(Please see Directed Study category.) (CSU w/limit)

SOCIAL SCIENCE COURSES

S SC 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

S SC 115  Leadership and Governance
(1 unit)(No prerequisite. One lecture hour weekly.)
Defines leadership and development of leadership skills, including communication, facilitation, problem solving, and conflict resolution. Critical review of governance structure of the college and the district and comparison to other college governance structures. Emphasis is placed upon understanding organizational structures, developing an ability to effectively implement and evaluate these structures. (CSU)

S SC 115AL/BL  Leadership and Governance Learning Lab
(1-2 units)(Prerequisite: Social Science 115 or concurrent enrollment. For one unit, three independent study hours weekly; for two units, six independent study hours weekly.)
This course includes appropriate laboratory assignments regarding service on governance committees. This laboratory will provide students the opportunity to apply critical thought to work experience situations in leadership and governance positions. Laboratory assignments will direct the students to focus upon planning, implementing, and evaluating their work in college/student organizations and governance committees. Combinations of Social Science 115AL and 115BL may be taken a total of four times for credit. (CSU)

S SC 125  Research Methods and Term Papers in the Social Sciences
(3 units)(No prerequisite. Advisory: Competence in written language skills comparable to eligibility for English 150. Students may receive credit for this course as Economics 125, Ethnic Studies 125, History 125, Political Science 125 or Social Science 125. However, credit will be awarded for only one discipline. Three lecture hours weekly.)
This course focuses on the elements of critical thinking and methods of research in the social sciences and develops skills required to organize such thought and research into effective, college level presentations. Various social science faculty members will offer their expertise to students on an individual basis as they develop their presentations. Students are encouraged to select areas of research from other courses taken during the semester or from areas of special interest including politics, history, economics, education, women's studies, ethnic studies, current issues, and issues of community concern.

Social Science 125 meets the Critical Thinking requirement (A, III) for the Bachelor of Arts degree at California State University. Economics 125, Ethnic Studies 125, History 125, and Political Science 125 are designed for students who want the research and paper skills, but are not working for satisfaction of requirement A, III. (CSU/UC)
CSU Area A-3

S SC 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

S SC 215  Survey of Current Events and Issues
(3 units)(No prerequisite. Can be taken for credit as Social Science 215, Economics 215, or Political Science 215. However, credit will be awarded for only one discipline. Three lecture hours weekly.)
An opportunity to critically examine and discuss significant world developments and to attempt to understand the sources of those developments. Each student will have an opportunity to focus on issues of particular interest and to share that information with the group. When possible, informed participants in world and national events will meet with the class to share their insights. (CSU/UC w/limit)

S SC 249  Directed Study
(1-3 units)(No prerequisite. One to three hours weekly.)
(CSU/UC w/limit)
SOCIOLOGY COURSES

SOC 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

SOC 110  Introductory Sociology, Individual and Society
(3 units)(No prerequisite. Three lecture hours weekly.)
A course designed to develop a sociological perspective; it will explore the relationship between individual and group behavior and the nature of societal and institutional influences upon individuals and groups, and the resulting patterns of behavior. Exposure to the core areas of sociology will be covered. May also be offered in a distance learning format. (CSU/UC)
AA/AS Area B, CSU Area D-0, IGETC Area 4, CAN SOC 2

SOC 112  Social Deviance and Problems
(3 units)(No prerequisite. Three lecture hours weekly.)
Identification and analysis of contemporary forms of deviant behavior generally defined as social problems by members of society. The course includes theoretical considerations of these problems, observations and descriptive interpretations, and field application of the sociological knowledge required in the classroom. (CSU/UC)
AA/AS Area B, CSU Area D-0, IGETC Area 4, CAN SOC 4

SOC 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU/UC w/limit)

SOC 140  Marriage, Family, and Intimate Relationships
(3 units)(No prerequisite. Can be taken for Sociology 140 or Psychology 140. However, credit will be awarded for only one course. Three lecture hours weekly.)
This course is designed to give the student a theoretical and practical understanding of the variety of intimate social and family relationships existing in contemporary society. While the course will cover traditional marriage and nuclear family relationships, emphasis will also be placed upon other life-styles, e.g., singles, gay, blended families, etc. Within the context of each life-style, topics such as communication, social roles, sexual behavior, decision making, child rearing, and everyday life interaction will be covered. (CSU/UC)
AA/AS Area B, CSU Area D-7 or E, IGETC Area 4

SOC 184  Criminology
(3 units)(No prerequisite. Can be taken for Sociology 184 or Administration of Justice 204. However, credit will be awarded for only one course. Three lecture hours weekly.)
An introduction to the major theoretical explanations of criminal behavior; social and economic factors which contribute to crime; major typologies of criminal behavior; criminal justice systems and research; courts, probation and parole; police; and other institutions. The course will take a sociological perspective and integrate theories from sociology, criminology, and criminal justice. (CSU/UC)

SOC 205  Introduction to Research Methods and Data Analysis in Sociology
(3 units)(Prerequisite: Sociology 110. Advisory: Mathematics 115 or Statistics 115. Course may be taken as Psychology 205 or Sociology 205, but credit will be given for only one course. Three lecture hours weekly.)
This course prepares students for upper division work in the sociology major. The course examines the following topics: conducting Internet and library research; formulating testable research hypotheses; methods of qualitative analysis (case studies, interview techniques, panel analysis, content analysis, questionnaire construction); descriptive research methods (participant observation, nonparticipant observation, path analysis); methods of examining the social power of critical events (quasi experimental and time series research designs); and methods of conducting archival analyses (meta analysis, statistical analysis of archival data). In addition the course trains students in the appropriate selection and use of nonparametric and parametric statistics. (CSU/UC)
AA/AS Areas B & E, CSU Area D-0, IGETC Area 4

SOC 220  Vice, Narcotics, and Organized Crime
(3 units)(No prerequisite. Can be taken for Sociology 220 or Administration of Justice 220. However, credit will be awarded for only one course. Three lecture hours weekly.)
This course examines the relationship between organized crime and the community. It will cover the impact of organized crime, history of organized crime, relationship to the social structure, symptoms of organized crime i.e. corruption, dysfunctional behavior, violence, and attempts to control organized crime and the role of the legal system. In addition, vice and trade in narcotics will be discussed. Modern organized crime groups both national and international will be highlighted. Exposure to sociological theory and concepts from criminal justice will be integrated into the course. (CSU)

SOC 230  Social Psychology
(3 units)(No prerequisite. Can be taken for Sociology 230 or Psychology 230. However, credit will be awarded for only one course. Three lecture hours weekly.)
This is an interdisciplinary course covering sociological and psychological approaches to important social phenomena. The diverse topics covered will be selected from the following: altruism; attitude formation and attitude change; conformity; person perception and social labeling; reference groups; social conflict and conflict resolution; human aggression; intergroup processes; intragroup processes; interpersonal attraction; social networks, statuses and roles; and the social development of the self. The course also covers the research methods and theoretical orientations found in sociological and psychological social psychology. (CSU/UC)
AA/AS Area B, CSU Area D-7, IGETC Area 4
SOC 249  Directed Study
(Please see Directed Study category.) (CSU/UC w/limit)

SOC 250  Organizational Sociology
(3 units)(No prerequisite. Three lecture hours weekly.)
This course is for sociology students, citizens, elected officials, managers and all others who are concerned about the role of government, private sector, and nonprofit organizations in contemporary society. Among the many topics to be covered are the following: the origins of organizational society, dynamics of organizational survival, methods of organizational research, forms of citizen influence on organizations, societal consequences of organizational practices, individual/psychological consequences of organizational practices, relationships between organizations and local communities, and relationships between organizations and nation states. (CSU)
AA/AS Area B, CSU Area D-0

SPANISH COURSES
All Spanish courses can be taken for a letter grade or credit/no credit.
In general, courses required for a transfer student’s four-year major should be taken on a letter grade basis.

SPAN 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

SPAN 101  Elementary Spanish I
(5 units)(No prerequisite. Four lecture and three laboratory hours weekly.)
A beginning course which offers study and practice in speaking, understanding, reading, and writing Spanish, along with exploration of the cultural aspects of the Spanish-speaking world. The three-hour weekly laboratory requirement enhances the student’s verbal and comprehension skills through the use of audiovisual materials. Can also be offered in a distance learning format. (CSU)
AA/AS Area C, CSU Area C-2, UC Language other than English

SPAN 102  Elementary Spanish II
(5 units)(Prerequisite: Spanish 101. Three lecture and three laboratory hours weekly.)
Further emphasis is placed on the structure of the language, verbal communication, and understanding of Hispanic culture. Continued use of the language laboratory for further mastery of the language. Can also be offered in a distance learning format. (CSU)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

SPAN 110  Conversational Spanish I
(4 units)(No prerequisite. Three lecture and three laboratory hours weekly.)
Use of modern colloquial Spanish in conversation with elementary grammar. Designed for students who wish to acquire skills of the spoken language with a minimum of formal grammar.
Oral practice in speaking and understanding Spanish through the use of videos, audiocassettes, and other audiovisual packages related to class work. Use of audio materials depicting everyday situations for improving fluency and accuracy in pronunciation. (CSU)

SPAN 112  Conversational Spanish II
(4 units)(Prerequisite: Spanish 110. Three lecture and three laboratory hours weekly.)
Use of modern colloquial Spanish in conversation with elementary grammar. Designed for students who wish to acquire skills in the spoken language with a minimum of formal grammar.
Oral practice in speaking and understanding Spanish through the use of videos, audiocassettes, and other audiovisual packages related to class work. Use of audio materials depicting everyday situations for improving fluency and accuracy in pronunciation. (CSU)

SPAN 114  Conversational Spanish III
(4 units)(Prerequisite: Spanish 112. Three lecture and three laboratory hours weekly.)
Continued use of modern colloquial Spanish in conversation with elementary grammar. Designed for students who wish to acquire skills in the spoken language with a minimum of formal grammar.
Continued oral practice in speaking and understanding Spanish through the use of videos, audiocassettes, and other audiovisual packages related to class work. Use of audio materials depicting everyday situations for improving fluency and accuracy in pronunciation. (CSU)

SPAN 120  Spanish for the Health Care Professionals I
(3 units)(No prerequisite. Three lecture hours weekly.)
This is a Spanish conversation course tailored to the needs of all health care professionals and workers who wish to learn Spanish with the goal of applying it in their working environment. No prior knowledge of Spanish is needed. Each lesson is accompanied by a set of listening exercises. This course fulfills continuing education requirements for registered nurses. Can also be offered in a distance learning format. (CSU)
SPAN 121  Spanish for the Health Care Professionals II
(3 units) (Prerequisite: Spanish 101 or 120. Three lecture hours weekly.)
This is the second semester continuation course for those health care professionals who have achieved a basic level of proficiency and wish to communicate more efficiently with their Spanish-speaking patients. Emphasis is placed on communication. Each lesson is accompanied by a set of listening exercises. Students get continuing education units with this course. (CSU)

SPAN 122  Spanish for Teachers
(3 units) (No prerequisite. Three lecture hours weekly.)
This is a Spanish conversation course designed to meet the needs of teachers who wish to learn Spanish with the goal of communicating with students and parents in their working environment. No prior knowledge of Spanish is required. This course fulfills continuing education requirements for teachers and is useful vocationally. (CSU)

SPAN 139  Selected Topics
(1/2-6 units) (Please see Selected Topics category.) (CSU/UC w/limit)

SPAN 203  Intermediate Spanish III
(5 units) (Prerequisite: Spanish 102. Four lecture and three laboratory hours weekly.)
In-depth study of the language with grammar review, oral practice, composition, and introduction to literature. The language laboratory offers the use of audiovisual materials for improved fluency and accuracy in pronunciation as well as the presentation of cultural and literary topics. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

SPAN 203HB  Intermediate Spanish for Heritage and Bilingual Speakers
(4 units) (Prerequisite: Oral Fluency in Spanish. Four lecture hours weekly.)
An intermediate course tailored to the needs of bilingual students who have had little formal study of the Spanish language. This course focuses on reading, writing and vocabulary as well as cultural aspects of all Spanish-speaking countries. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

SPAN 204  Intermediate Spanish IV
(4 units) (Prerequisite: Spanish 203. Four lecture hours weekly.)
Continuation of study and practice in speaking, understanding, reading, and writing Spanish. Completion of the review of Spanish grammar in-depth. Reading in literature, history, and culture of the Spanish-speaking world. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

SPAN 225-226  Advanced Spanish I and II
(3 units) (Prerequisite for Spanish 225 is Spanish 204. Three lecture hours weekly for each course.)
Courses aimed at expanding the student's knowledge of the Spanish language and civilization through the study of grammar, literature and the Spanish language press, with particular emphasis on the present day Hispanic world. Emphasis is placed on an advanced level of verbal expression and written composition. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

SPAN 228  Advanced Spanish Conversation and Culture through Films
(3 units) (Prerequisite: Spanish 204. Three lecture hours weekly.)
Students will learn about socio-cultural and political changes in Spanish-speaking countries in modern times through one of the most expressive artistic means of the twentieth century, films. After introduction to the historic period, director and the vocabulary, students will view the films and discuss them in Spanish. Additional essays and critiques will be provided. (CSU/UC)
CSU Area C-2

SPAN 230A  Culture and Civilization of Spain and South America
(3 units) (Prerequisite: Spanish 102. Three lecture hours weekly.)
Students will study language, heritage, culture, traditions, music, art, literature, historic and current events of Spain and South American countries. The course is conducted entirely in Spanish and students are expected to have knowledge of verb tenses and other grammatical structures. (CSU/UC)
AA/AS Area C, CSU Area C-2, IGETC Area 3B

SPAN 230B  Culture and Civilization of Mexico and Central America
(3 units) (Prerequisite: Spanish 102. Three lecture hours weekly.)
This class is a study of language, heritage, culture, traditions, music, art, literature, historic and current events of Mexico and Central American countries. The course is conducted entirely in Spanish and students are expected to have knowledge of verb tenses and other grammatical structures. May be taken once for credit.
AA/AS Area C, CSU Area C-2

SPAN 249  Directed Study
(1-3 units) (Please see Directed Study category.) (CSU/UC w/limit)
SPEECH COURSES

SPCH 39  Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

SPCH 110  Introduction to Speech Communication
(3 units)(No prerequisite. Three lecture hours weekly.)
A survey course designed to introduce students to public speaking, critical listening, and listener feedback. Emphasis is on building self-confidence through frequent performance experience. (CSU/UC)
AA/AS Area E, CSU Area A-1, IGETC Area 1C

SPCH 110L  Introduction to Speech Communication Lab
(½ unit)(No prerequisite. Corequisite: Speech 110. One and one-half laboratory hours weekly.)
Students will watch and write analyses of model speeches, describing successful elements. Further, students will develop and practice speech skills using the video camera for taped feedback. (CSU)

SPCH 120  Interpersonal Communication
(3 units)(No prerequisite. Three lecture hours weekly.)
Introduction to principles of effective communication in interpersonal relationships. Study of verbal and nonverbal communication, person perception, conflict resolution, listening, and communication barriers. Students will learn to identify communication behaviors and patterns in interpersonal relationships (both their own and others). (CSU/UC)
AA/AS Area E, CSU Area A-1, IGETC Area 1C

SPCH 122  Public Speaking
(3 units)(No prerequisite. Three lecture hours weekly.)
A survey course designed to introduce students to three specific areas of public speaking: informative speaking, persuasive speaking and small group speaking. Emphasis is on effective research and outline methods, critical listening, providing effective listener feedback to the speaker and on effective verbal and nonverbal delivery skills. (CSU/UC)
CSU Area A-1, IGETC Area 1C, CAN SPCH 4

SPCH 128  Intercultural Communication
(3 units)Formerly Speech 139A. (No prerequisite. Three lecture hours weekly.)
This is a course designed to familiarize students with the theory and process of effectively communicating with people different from themselves in terms of ethnicity, culture, race, and language use. The specific focus of this course will be to develop, through guided research, the student's ability to recognize, acknowledge, and better understand the uniqueness of people from European-American, African-American, Asian-American, and Latino-American cultures through comparison of their respective communication behaviors. Students will study theories from intercultural and intergroup communication as they relate to intercultural communication, and will read from an intercultural anthology. Through lectures, discussions, reading, research, viewing films on videotapes, group presentations, written and oral assignments, students will learn the skills necessary to achieve positive outcomes when communicating with others who are perceived as being culturally, ethnically or racially different than they. (CSU/UC)
AA/AS Areas C or E, & G, CSU Area D-7, IGETC Area 3B

SPCH 130  Small Group Communication
(3 units)(No prerequisite. Advisory: Eligibility for English 150. Three lecture hours weekly.)
This course offers practical experience in the techniques of leading and participating in small group discussions. Effective small group discussion techniques such as speaking on panels, symposiums, problem-solving groups, conflict resolution within small groups as well as leadership skills and parliamentary procedures are covered. This course is designed for students intending to major in speech (communication), business, international business, education, and all fields of study and certification that require group and team-building skills. (CSU/UC)
AA/AS Area E, CSU Area A-1, IGETC Area 1C

SPCH 132  Argumentation and Persuasion
(3 units)(No prerequisite. Three lecture hours weekly.)
The goal of this course is to increase students' skills in logical argument and ethical persuasion in verbal communication. Students learn how to analyze and use verifiable evidence, sound reasoning, and effective rhetorical appeals. The class will sharpen abilities to detect careless inferences and fallacies in oral language. Students will practice these skills in individual and group speaking projects. The result is increased ability to think critically and express ideas rationally. (CSU/UC)
AA/AS Area E, CSU Area A-1 or A-3, IGETC Area 1C

SPCH 139  Selected Topics
(½-6 units)(Please see Selected Topics category.)
(CSU/UC w/limit)
SPCH 140-141 Oral Interpretation of Literature I and II
(3-3 units)(No prerequisite. Three lecture hours weekly.)
The goal of this course is to introduce students to the field of oral interpretation of literature. Emphasis is on awareness and appreciation of prose and poetry, and what happens to the written word when it is read aloud for the listening pleasure of an audience. Recommended for speech and theatre arts majors. (CSU/UC)
AA/AS Area C, CSU Area C-2

SPCH 155 Radio and Television Announcing and Performance
(3 units)(No prerequisite. Three lecture hours weekly.)
This course prepares students to communicate more effectively through the electronic and/or digital media. Students will explore how to articulate messages, vary pitch and volume to the text and context, pronounce words according to accepted standards, express thoughts and feelings with confidence, understand and interpret the meaning of a message, and communicate ideas from a variety of prompts. (CSU)

SPCH 249 Directed Study
(1-3 units)(Please see Directed Study category.) (CSU/UC w/limit)

STATISTICS COURSES

STAT 39 Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

STAT 115 Introduction to Statistics
(4 units)(Prerequisite: Math 103 or 103G or 103XY. Four lecture hours weekly.)
This course is an introduction to statistics for students in social science and business disciplines. The course covers descriptive statistics, probability, hypothesis testing, linear and multiple regression, correlation, sampling, statistical inference and time series analysis. Illustrations are taken from the various social sciences and from business. Students will be instructed in the use of computer spreadsheet software to solve statistical and data analysis problems. Statistics 115 and Math 115 are equivalent. Students may receive credit for only one course. (CSU/UC)
AA/AS Area E, CSU Area B-4, IGETC Area 2, CAN STAT 2

STAT 139 Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

STUDY SKILLS COURSES

STSK 39 Selected Topics (Nondegree Applicable)
(½-6 units)(Please see Selected Topics category.)

STSK 50 Understanding Learning Disabilities
(½ unit)(No prerequisite. Two lecture hours for four weeks.)
This is a class that will explore topics related to the field of learning disabilities. Areas covered may include causes of learning disabilities, effects of learning disabilities, evaluation, accommodations, and other relevant issues. May be taken twice for credit.

STSK 53 Basic Math Skills
(1 unit)(No prerequisite. One lecture hour weekly.)
This course is designed to serve students with basic math computation learning problems. Covers basic math skills using a variety of resources. Basic skills taught include addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. This course is repeatable for credit.

STSK 54 Writing Improvement
(1 unit)(No prerequisite. One lecture hour weekly.)
This course is designed for students with language-based learning disabilities. It is designed to help students write coherent paragraphs. Grammar, punctuation, sentence structure, and paragraph organization will be covered. This course is repeatable for credit.

STSK 56 How to Study in College
(1 unit)(No prerequisite. One lecture hour weekly.)
This course is designed specifically for students with learning disabilities. It is designed to teach college level study techniques to students with learning problems so that they can succeed in college. Major topics include setting goals, managing time, improving concentration and memory, taking notes, organizing study materials, reading textbooks, dealing with test anxiety, and preparing for and taking essay and multiple choice tests. This course is repeatable for credit.

STSK 70-78 Study Skills Workshop
(½ unit each module)(No prerequisite. Twenty-six and one-quarter laboratory hours per one-half unit. Open-entry, open-exit classes.)
A laboratory designed to provide individual testing and remediation of academic skills for students defined as having a dysfunction or delay in one or more processes or skills. Provides support for learning disabled students attending academic courses. Study Skills 70 must be taken by all new students and may be taken twice for credit. Study Skills 76-78 are repeatable for credit.

<table>
<thead>
<tr>
<th>Courses offered are:</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>STSK 70 Evaluation</td>
<td>½</td>
</tr>
<tr>
<td>STSK 76 Study Techniques</td>
<td>½</td>
</tr>
<tr>
<td>STSK 77 Adapted Computer Learning</td>
<td>½</td>
</tr>
<tr>
<td>STSK 78 Acquired Brain Injury</td>
<td>½</td>
</tr>
</tbody>
</table>
STSK 139  Selected Topics
(½-6 units)(Please see Selected Topics category.) (CSU w/limit)

STSK 161  Seminar for Tutors
(2 units)(No prerequisite. One lecture and three laboratory hours weekly.)

This course is designed to assist peer tutors in developing their understanding of the principles and processes involved in tutoring. Students will also acquire both the organizational and interactional skills required for a successful tutoring session. Help to build their skills as learning resources for other students. Student is required to tutor a minimum of three hours a week. (CSU)

STSK 161A  Instructional Resources for Tutors
(½ unit)(No prerequisite. Corequisite: Student must be employed as a tutor for the credit program at College of Marin and tutoring at least three hours per week. One and one-half laboratory hours weekly.)

This course monitors and supports both the students who have completed Study Skills 161 and those tutors newly hired for the spring semester. Tutors will meet regularly with the instructors to monitor the progress of the tutees, to review tutorial strategies with the tutors, to resolve any conflicts, and to ensure that the tutoring program’s goals are met by the tutor-tutee relationship. (CSU)

STSK 162  Community Action Skills Lab
(2 units)(Prerequisite: Enrolled in at least nine units, including two units for Study Skills 162. Two lecture hours weekly.)

This course is designed to train students to provide peer assistance to EOPS and VEA students in Student Affairs, orientation, EOPS counseling, and Health Services. Topics include peer counseling techniques, working with special student populations, and an overview of assessment and information on all student services. (CSU)

WORK EXPERIENCE COURSES

W E 299ABC  General Work Experience
(1-3 units)(Prerequisite: Enrollment in at least seven units of college courses including Work Experience. A minimum of five hours of employment per week for each unit.)
The student must be employed but the position need not relate to college major or student’s career goals. The instructor-coordinator and the employer assist the student to become a more effective employee, while also clarifying and pursuing longer term career goals. May be taken for a maximum of six units. (CSU)

W E 298ABCD  Occupational Work Experience
(1-4 units)(Prerequisites: Enrollment in at least seven units of college courses including Work Experience. A minimum of five hours of employment per week for each unit.)

Employment must clearly be related to the course of the study/career plans. The work experience serves as both a source of income and a vehicle for reinforcing and expanding classroom learning in a student’s chosen career field. The employer provides an “extended campus,” not available in traditional classroom programs. May be taken for a maximum of 16 units. (CSU)
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Hank Fearnley, A.A., B.A., M.A., M.L.S., Ph.D.
Fulbright Scholar and Political Science Instructor Hank Fearnley, Ph.D. has made a point of inspiring his students to think critically about their political and historical environment. He has presented at national conferences and received several Alpha Gamma Sigma Honor Society teaching awards.

Ingrid Schreck, B.A., M.A.
As a community college graduate, COM English Instructor Ingrid Schreck, knows what it means to turn dreams into achievable goals. Teaching provides her with the opportunity to meet students at a point in their lives where great change and transformation are imminent. A published author and statewide speaker, Schreck received a President’s Excellence Award for Meritorious Service.

Joe Mueller, A.S., B.S., M.A.
For Biology Instructor Joe Mueller, the answer to the current environmental crisis begins with sharing his passion for life and helping students think about the volatility of our relationship with the planet. “The opportunity to facilitate change in a student’s life is the reason why I look forward to every day I teach,” he says.

Yolanda Bellisimo, B.A., M.A.
At COM, the students are of paramount importance, says Yolanda Bellisimo, a History and Political Science Instructor and a recipient this year of a Golden Bell Award for excellence in teaching. “We are not just teaching content. We pay attention to learning styles, offer materials using multiple strategies of teaching and have small enough classes to cater to the specific needs of our students.”