Course Numbering System

The courses on the following pages are alphabetically and numerically arranged. The first line indicates the official designation of the course and a descriptive title. The second line identifies the number of units and the number of class and laboratory hours per week. Next line indicates the grading option followed by a brief course description. Finally, any prerequisites, co-requisites, and/or recommended preparation if applicable.

COURSE NUMBERING SYSTEM DEFINED

1-14 Pre-Collegiate Non-Degree Credit
Courses which are developmental or remedial (pre-collegiate basic skills) and are not applicable for the Associate Degree and are not transferable.

15-49 Non-Degree Credit
Courses that prepare students for experiences in which the possession of “college level” skills may be desirable, but are not, strictly speaking, necessary for entry into an occupation or program of study. These courses are not applicable for the Associate Degree and are not transferable.

50-99 Degree Credit Non-Transfer
College level courses applicable for the non-transfer Associate Degree only. Courses are not recommended as transferable to the California State University system or University of California system or private colleges and universities.

100-199 Degree Credit Transfer-CSU
College level courses applicable for the Associate Degree. Courses intended to carry transfer credit to all baccalaureate degree-granting institutions in the California State University system and may transfer to the University of California system and most private colleges and universities.

200-299 Degree Credit Transfer — CSU & UC
College level courses applicable for the Associate Degree. Courses intended to carry transfer credit to all baccalaureate degree-granting institutions in the University of California system as well as the California State University system and most private colleges and universities.

500-599 Noncredit
Courses numbered 500-599 are offered on a noncredit basis. Regular attendance and participation are required. No college credit is issued. See the Schedule of Classes for more detail.

18, 88, 188 Special Topics
Courses with these numbers are “special topics” courses. They follow all other rules noted above regarding degree applicability and transferability.

KEY TO COURSE ABBREVIATIONS

Example:

ADJ-30 Drug Abuse Recognition
0.5 Units / 0.5 hours lecture.
Credit course taken for Pass/No Pass only.
This course is designed to provide students with knowledge, from a law enforcement perspective, of how to recognize alcohol and other drug symptoms of abuse, behaviors, and physiological effects. The instruction will include drug paraphernalia identification and applicable laws.

Course number = 30 Course Title = Drug Abuse Recognition Course Unit(s) = .5
ADMINISTRATION OF JUSTICE

ADJ-101 Juvenile Justice  
3.0 Units / 3.0 hours LEC  
Credit course for letter grade only  
This course will give students an overview of American Juvenile Justice in terms of both system and practice. It examines the juvenile offender, causes of juvenile crime, theories of delinquency, the juvenile court system from citation to disposition, and juveniles in the adult court system. This course also looks at institutionalization, rehabilitation, the treatment of juveniles, constitutional protections of juveniles and the future of juvenile justice in America. Restorative Justice practices, cultural impacts on youth and the history of dealing with Juvenile Offenders will be examined.  
Recommended Preparation: ADJ 200 and ENG 200

ADJ-102 Corrections  
3.0 Units / 3.0 hours LEC  
Credit course for letter grade only  
This course will use sociological perspectives to explore issues related to incarceration for juveniles and adults. This course will also cover alternatives to incarceration including, probation, parole, community service, restorative justice, rehabilitation, and alternative courts and will cover how other developed countries address incarceration and alternatives to incarceration. The course will address the economic disparities, societal and cultural aspects of incarceration within the United States and how states are addressing the overpopulation of jails and prisons and the types of correctional institutions and clients housed in each.  
Recommended Preparation: ADJ 200 and ENG 200

ADJ-104 Legal Aspects of Evidence  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will introduce students to the origin, development, philosophy and constitutional bases of evidence. Topics include: constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence; rules governing admissibility; and judicial decisions interpreting individual rights. (C-ID AJ 124)  
Recommended Preparation: ADJ 200 and ENG 200

ADJ-106 Principles of Investigation, Crime Scene and Laboratory Techniques  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will introduce the fundamentals of investigation including: crime scene search and recording; collection and preservation of physical evidence; scientific aids and modus operandi; sources of information; interviews and interrogation; and follow-up and case preparation. The course will also cover the role of the crime scene investigator, crime lab, forensics and the technology and equipment needed to gather, process, preserve and evaluate evidence for probative value. (C-ID AJ 140)  
Recommended Preparation: ADJ 200 and ENG 200

ADJ-108 Patrol Procedures and Police Report Writing  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover patrol function and the roles and responsibilities of patrol officer. This course will also cover police report writing in the first person, using a chronological and plain-talk style. The course will discuss the purpose for clear, concise and accurate writing as it pertains to the court process and prosecution. This course will provide students an opportunity to theoretically walk through patrol duties and write reports based on actual patrol procedures learned.  
Recommended Preparation: ADJ 200

ADJ-109 Victimology  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will teach students to identify victim response and care before during and after court cases. The course objective is to give students a deeper knowledge base of the fields of victimology and criminology. Students will learn about the history of victimology and the victims' rights movement; how to analyze trends in and consequences of crime and victimization; to differentiate between types of crimes and to recognize victimization in different settings.  
Recommended Preparation: ADJ 200 and ENG 200
ADJ-150 Public Safety Leadership
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will provide students with a foundation of leadership concepts that can be used to lead themselves, a team, a business, or a large organization. These leadership lessons will serve as a foundation and be useful for employment exams, working with supervisors, and developing as a leader throughout one's career. At times we all will be called upon to lead, sometimes in the midst of an emergency, or other times when asked to spearhead a new project. Learning leadership skills is just as important for someone just starting their career, as it is for those who are well established along a career path.
Recommended Preparation: ENG 200

ADJ-200 Introduction to Administration of Justice
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will provide an overview of the American criminal justice system that will cover the nature and causes of crime, the historical development of criminal law, and the roles of the various subsystems and agencies that operate within the justice system. This course covers the philosophy behind crime control measures, the prosecution of accused persons, incarceration and rehabilitation of convicted offenders. The course will also examine role expectations, ethics, education and training for professionalism within the justice system. (C-ID AJ 110)
Recommended Preparation: ENG 200

ADJ-202 Concepts of Criminal Law
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will cover the historical development, philosophy of law and constitutional provisions; definitions, classifications of crimes and their applications to the system of administration of justice; and legal research, review of case law, methodology and concepts of law as a social force. Crimes against persons, property, and the state as a social force are also covered in this course. (C-ID AJ 120)
Recommended Preparation: ADJ 200 and ENG 200

ADJ-204 Community Relations
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will explore the complex interrelationship and role expectations among the policing agencies and the public in addressing crime and conflict. It emphasizes the challenges and prospects of administering justice within a diverse multicultural population during a period of social unrest. The professional image of the criminal justice system is examined as well as the development of positive relationships between law enforcement agencies and the public. The fundamentals of community policing are a focus of the course. (C-ID AJ 160)
Recommended Preparation: ADJ 200 and ENG 200

AGRICULTURE

AGR-53 Landscaping with Native Plants
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will instruct students how to identify many native California plants that can be used in the landscape. Learn the plants cultural needs and how to best integrate these plants into diverse landscape settings.

AGR-56 Small Farm Machinery Operations and Safety
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the use and safe operation, general maintenance checks and the economics of equipment commonly used on small farms and vineyard operations. Hands-on experience and farm visits will be a major component of this class.

AGR-57 Mushroom Cultivation
1.0 Units / 0.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce the student to the techniques of mushroom cultivation beginning with starting the culture and progressing through methods for stimulating fruiting and the production of mushrooms. Methods taught will emphasize home cultivation, but commercial production methods will also be discussed. Students will participate in all aspects of the production process.
AGR-61 Mushroom Identification - Fall  
1.0 Units / 1.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will cover the identification and ecology of the fall mushroom flora. Emphasis is placed on keying species to genus and on identification of the more common edible and toxic species fruiting in the fall on the north coast. Lecture material will also cover ecological relationships, toxins and mushroom reproduction.

AGR-62 Mushroom Identification - Spring  
1.0 Units / 1.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will cover the identification and ecology of the spring mushroom flora. Emphasis is placed on keying spring species to genus and on identification of the more common edible and toxic species fruiting in the spring on the north coast. Lecture material will also cover mushrooms used for food medicine as well as their role in forest management.

AGR-75 Introduction to Pruning  
1.0 Units / 1.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will cover the principles and skills of pruning and training ornamental shrubs and vines, grapevines, fruit trees and ornamental landscape trees. Students will learn how to avoid the common mistakes made in pruning in order to produce more flowers, fruit and achieve aesthetically appealing strong structured plants.

AGR-100 Plant Pest and Disease Management  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
*Credit course for grade or Pass/No Pass*  
This course will introduce the student to the common pests and diseases of agricultural crops, with emphasis on local crops and greenhouse problems. Application of integrated pest management (IPM) and proper identification and monitoring of pest and disease populations will be covered. Selection of appropriate management strategies with least-toxic methods will be stressed. Cultural, chemical, and biological controls in applied situations will be presented.

AGR-102 Plant Propagation  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
*Credit course for grade or Pass/No Pass*  
This course will cover the propagation techniques and science needed to propagate plants sexually by spores and seed, including breeding, and asexually via cuttings, layering, division, grafting, budding and tissue culture. Equipment and structures commonly used for these plant propagation techniques will be both discussed and used in this class.

AGR-108 Soils and Fertility Management  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
*Credit course for letter grade only*  
This course will cover applied soil science, including soil formation, physical, chemical and biological properties of soils, management and conservation, plant nutrition, and fertilization. This course will emphasize on using sustainable methods with local crops, soils, and greenhouse media.

AGR-111 Introduction to Viticulture  
3.0 Units / 3.0 hours LEC  
*Credit course for letter grade only*  
This course will be an introduction to the viticulture industry including grape growing, history, distribution, biology, anatomy, propagation, cultivars, rootstocks, climate, vineyard cultural practices and common pests and diseases.

AGR-112 Viticulture Practices  
2.0 Units / 1.0 hours LEC; 3.0 hours LAB  
*Credit course for grade or Pass/No Pass*  
This course will cover viticulture practices including pruning, training, frost control, vineyard development, vineyard pest and disease management, nutrient management, cover cropping, erosion control, hand labor practices and principles of supervision of labor.
COURSES

AGR-116 Sustainable Agricultural Systems  
2.0 Units / 1.5 hours LEC; 1.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will cover the history, definitions, concepts, principles and practices of sustainable agricultural systems. The course will also examine case studies and expose the student to field-based learning through labs and field trips.

AGR-140 Introduction to Horticulture  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for letter grade only  
This course will explore the horticultural industry. It will cover the growing methods, practices, facilities, and management necessary to produce and market a variety of plants and crops popular with gardeners, nurseries, landscapers, and small farmers. (C-ID AG-EH 104X)

AGR-142 Landscape Maintenance  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for letter grade only  
This course will give a student academic and hands-on training experience in the maintenance of diverse landscapes through modern techniques of pruning, irrigation and soil management. Students will learn how to find sustainable solutions to landscape problems, proper use of fertilizers, the basic concepts of arboriculture and the scheduling of landscape maintenance activities.

AGR-144 Nursery Management and Practices  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will take the student through all aspects of nursery management including plant propagation; soil media; transplanting; container, field and greenhouse growing situations; pest and disease management; irrigation and fertilizer estimations and applications. The administrative and financial management of a nursery business will be explored.

AGR-147 Greenhouse Projects  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will instruct the student of the interworking of a greenhouse through growing of horticultural crops and gaining experiences in all facets of greenhouse operations and crop production.

AGR-151 Landscape Irrigation  
2.0 Units / 1.0 hours LEC; 3.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will cover the design of landscape irrigation systems with supporting instruction on soil factors, hydraulics, site information, selection of system components, back flow prevention, plumbing codes, and cost estimating. Time will be spent in the field and in the classroom on the subjects related to both spray systems and drip irrigation systems.

AGR-154 Landscape Construction  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for letter grade only  
This course will cover the steps of constructing a new landscape and renovations of established landscapes. The students will learn the basics of designing and drafting a landscape plan. Students will construct and install various hardscape projects during this course. (C-ID AG-EH 132X)

AGR-180 Fall Sustainable Vegetable and Fruit Production  
2.0 Units / 1.0 hours LEC; 3.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will cover sustainable fall vegetable growing practices for the gardener and small farmer. It will present specific cultural practices for fall vegetables and fruit production. The basic concepts and techniques in the following areas will be introduced: season extension, evaluation of sites and soils, propagation, irrigation, pests and disease, weeds, composting, soil preparation, pruning, harvesting, storage and preservation of produce. This course will emphasize organic/sustainable practices, but includes presentation and discussion of other practices as well.
AGR-181 Sustainable Spring Vegetable Growing Practices  
**2.0 Units / 1.0 hours LEC; 3.0 hours LAB**  
**Credit course for grade or Pass / No Pass**  
This course will cover spring vegetable growing practices for the small farmer and gardener. This includes plant propagation, soils and crop fertility, drip irrigation practices and scheduling, pest and disease management, heat management and laboratory field work. Principles of sustainable practices will be stressed.

AGR-197 Agriculture Internship  
**1.0 - 8.0 Units / Credit course for grade or Pass / No Pass**  
This course is a supervised internship in agricultural food production and/or marketing and distribution. Internships are courses in which students demonstrate knowledge and skills learned in the classroom in a real work situation, while developing new job-specific knowledge and skills. Internships also help students better understand an occupation, and to gauge their interest and compatibility with a specific career. Students can earn up to 8 units per semester (for a total of 16 combined Work Experience units).  
*Recommended Preparation: AGR 140*  
*Limitation on Enrollment: Requires Instructor consent. Student must meet criteria for internship work site. May be taken for a total of 16 units in any combination*

AGR-240 Plant Identification-Fall  
**3.0 Units / 2.0 hours LEC; 3.0 hours LAB**  
**Credit course for grade or Pass / No Pass**  
This course will focus on the identification, the cultural needs, and the landscape uses of ornamental trees, shrubs, vines and other landscape plants that show best during the fall.

AGR-241 Plant Identification-Spring  
**3.0 Units / 2.0 hours LEC; 3.0 hours LAB**  
**Credit course for grade or Pass / No Pass**  
This course will focus on the identification, the cultural needs and the landscape uses of ornamental trees, shrubs, vines and other landscape plants that show best during the spring and early summer.

**ALCOHOL & OTHER DRUGS**

AOD-151 Alcohol and Other Drugs: Overview  
**3.0 Units / 3.0 hours LEC**  
**Credit course for grade or Pass / No Pass**  
This course will provide students with an overview of the historical and contemporary role of licit and illicit drugs in society, emphasizing the physical, social, and emotional consequences of their use and abuse. Topics include pharmacologic, neurologic and physiologic effects of selected substances on the human brain; the social and cultural factors, including specific risk factors, that contribute to the use of licit and illicit drugs; social and economic factors involved in the supply and demand for licit and illicit drugs; the pattern and progression of substance use disorders; theories of harm reduction, prevention and treatment; and public policy and legislation. (C-ID PHS 103)  
*Recommended Preparation: ENG 200*

AOD-153 Physiology and Pharmacology of Alcohol and Other Drugs  
**3.0 Units / 3.0 hours LEC**  
**Credit course for grade or Pass / No Pass**  
The course will provide the student with a basic understanding of the physiological and pharmacological actions of psychoactive drugs. Psychological, sociological and biological perspectives will be presented. The course will provide detailed information on the following groups of drugs: stimulants, tobacco, depressants (including alcohol), opioids, hallucinogens, marijuana, over-the-counter (OTC) drugs, and other selected psychotherapeutic drugs.  
*Recommended Preparation: ENG 200*

AOD-158 AOD Practicum Preparation  
**1.5 Units / 1.0 hours LEC; 1.5 hours LAB**  
**Credit course for letter grade only**  
This course will prepare students seeking certificates or degrees in Alcohol and Other Drug Studies for their AODS internship. Students will be expected to demonstrate a basic level of skill and knowledge required for the internship. Students will also research and interview agencies which provide services in the field of substance abuse as potential internship sites.  
*Prerequisite: HUS 154, HUS 155, and HUS 156 with a minimum grade of C*
COURSES

AOD-164 Field Placement and Practicum Seminar I  
1.5 Units / 1.5 hours LEC  
Credit course for letter grade only  
This course will provide classroom instruction to support the Alcohol and Other Drug Studies Program field placement practicum. Students will enhance interpersonal and professional communication and problem solving skills as they integrate and apply knowledge and skills developed in the AODS Program.  
Corequisite: AOD 197A

AOD-165 Field Placement and Practicum Seminar II  
1.5 Units / 1.5 hours LEC  
Credit course for letter grade only  
This course will provide classroom instruction to support the second semester of the Alcohol and Other Drug Studies Program field placement practicum. Students will further enhance interpersonal and professional communication and problem solving skills as they further refine, integrate and apply additional knowledge and skills developed in the Alcohol and Other Drug Studies Program.  
Prerequisite: AOD 164 with a minimum grade of C  
Corequisite: AOD 197A

AOD-166 Marijuana: An Overview  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will provide a balanced overview of marijuana, including its pharmacological effects; the history of its medicinal, recreational, agricultural and industrial uses; prevalence and social attitudes related to its use; criminalization and drug control policies; and behavioral health concerns. An emphasis will be placed on contemporary issues regarding decriminalization and legalization of its use as a medicinal and recreational drug.  
Recommended Preparation: ENG 200

AOD-197A Alcohol and Other Drug Studies Program Practicum  
2.0 - 8.0 Units / Credit course for letter grade only  
This course will provide Alcohol and Other Drug Studies certificate and degree students the opportunity to apply knowledge, skills and attitudes learned in the classroom in an actual human services workplace.  
Prerequisite: AOD 158 with a minimum grade of C  
Corequisite: AOD 164 or AOD 165

AMERICAN SIGN LANGUAGE

ASL-200 Elementary American Sign Language: Level I  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will introduce everyday communication in American Sign Language (ASL). Students will learn to exchange information, identify others, make requests, give reasons, provide simple directions, and ask for clarification. Topics will center around personal information and the immediate environment. This course will also introduce students to Deaf culture, including the American Deaf perspective, education of the Deaf, and an overview of the history of the American Deaf.

ASL-201 Elementary American Sign Language: Level II  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will continue the study of the fundamentals of American Sign Language (ASL), with an emphasis on communication skills, grammatical structure and practice in the expressive aspects of the language. Additionally, the course will further explore Deaf culture, including the American Deaf perspective, social norms and current issues in the Deaf community.  
Prerequisite: ASL 200 with a minimum grade of C

ANTHROPOLOGY

ANT-200 Physical Anthropology  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will examine the evolution and characteristics of Homo sapiens. It surveys the processes of evolution and their application to the development of modern humans. Biological/behavioral relationships between humans and other primates, human genetics, fossil evidence of human evolution, archaeology, and physical variation within and among modern human populations will also be covered. (C-ID ANTH 110)
ANT-201 Cultural Anthropology
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will examine a diversity of cultural phenomena across humanity, including material culture, economics, social and political organization, religion, gender, sexuality, social class, language and related topics from different times and global regions. It will also explore the significance of the historical emergence of various cultural traditions, practices and beliefs with implications of understanding our own interconnected global society. (C-ID ANTH 120)

ART & ART HISTORY

Course Families
Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

Aqua Media: ART 222A, ART 222B
Ceramics – Hand Built and Thrown: ART 240A, ART 240B, ART 240C, ART 240D
Ceramics – Technical/Professional: ART 50, ART 51, ART 53, ART 246, ART 247
Foundations: ART 213, ART 214
Drawing Family: ART 210A, ART 210B, ART 231A, ART 231B
Painting: ART 228A, ART 228B, ART 228C, ART 228D, ART 229
Photography: ART 282
Professional Practice: ART 160, ART 191
Sculpture: ART 250A, ART 250B, ART 250C
Textile Surface Design: ART 176A, ART 176B

ART-50 Ceramic Kiln Building and Repairing
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass/No Pass
This course will teach the basics of operating, constructing, maintaining, and repairing electric and fuel-burning kilns.

ART-51 Introduction to Ceramic Glazes
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass/No Pass
This course will delve into the mysteries of ceramic glaze materials and the art and science of formulating them into glazes for pottery and sculpture. It is designed to be an entry level but comprehensive study of ceramic glaze technology.

ART-53 Low-Temperature Ceramic Firing/Glazing Techniques
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass/No Pass
This course will focus on the exciting new field of mid-range ceramic. It will be a hands-on lecture and lab investigation into the glazing and firing of both pottery and sculpture.

ART-140 Art Portfolio and Professionalism
CSU
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for letter grade only
This course will introduce art students to the process of creating a portfolio of work and moving that artwork from the studio to the show place. Through lectures and demonstrations, the students will follow a portfolio of work from concept to presentation. Topics covered will be thesis concept development, digital artwork documentation, promotion, exhibition layout and lighting.

ART-160 Art Gallery Management & Exhibition
CSU
1.0 Unit / 0.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to careers in art gallery management. Gallery fundamentals in the visual arts including planning, preparation and maintenance of exhibits, experience in installation of exhibitions, inventory management, participation in staffing, and docent activities will be covered.
ART-176A Fabric Printing and Dyeing I

_3.0 Units / 1.5 hours LEC; 4.5 hours LAB_
_Credit course for grade or Pass / No Pass_

This course will provide an introduction to and exploration of tie-dye, batik, starch paste resists, printing and painting on fabric using dyes and pigments. Emphasis is placed on the methods of application and use of two-dimensional design principles on fabric.

ART-176B Fabric Printing and Dyeing II

_3.0 Units / 1.5 hours LEC; 4.5 hours LAB_
_Credit course for grade or Pass / No Pass_

Continued exploration of the techniques learned in Art 176A. Introduction to the use of acid dyes, and other dye techniques. Emphasis on combining techniques and developing individual creativity.

ART-191 Art and Craft Marketing

_3.0 Units / 3.0 hours LEC_
_Credit course for grade or Pass / No Pass_

This course will cover pricing, portfolio presentation, marketing, bookkeeping, business and legal considerations for students who want to market their arts and crafts. Class lectures will be augmented by visits to galleries and shops, as well as presentations by arts and crafts professionals.

ART-199 Independent Study

_0.5 - 4.0 Units / 1.5 - 12.0 hours LAB_
_Credit course for grade or Pass / No Pass_

This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.

**Limitation on Enrollment:** The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

ART-205 Modern Art History

_3.0 Units / 3.0 hours LEC_
_Credit course for grade or Pass / No Pass_

This course will cover basic concepts of modern art as traced through the development of painting, sculpture, architecture and related art forms from the mid-nineteenth century to the present.

_Recommended Preparation: ENG 200_

ART-206 Introduction to Native American Art

_3.0 Units / 3.0 hours LEC_
_Credit course for grade or Pass / No Pass_

This course will cover the history and cultural changes of traditional and contemporary art forms of the major indigenous cultural regions of North America and Canada.

ART-207 Survey of Western Art from Prehistory through the Middle Ages

_3.0 Units / 3.0 hours LEC_
_Credit course for grade or Pass / No Pass_

This course will provide an overview of Western Art History from prehistoric cultures through the fourteenth century. Architecture, sculpture, painting, drawing, calligraphy, book arts, metal, textiles, ceramics and jewelry from Europe and the Ancient Near East are included. (C-ID ARTH 110)

_Recommended Preparation: ENG 200_

ART-208 Survey of Western Art from the Renaissance to the Contemporary Period

_3.0 Units / 3.0 hours LEC_
_Credit course for grade or Pass / No Pass_

This course will provide an overview of Western Art History from the Renaissance through the 20th Century. Artistic innovations in painting, photography, sculpture and architecture are explored as well as the major art movements of the modern age. (C-ID ARTH 120)

_Recommended Preparation: ENG 200_
ART-209 Art Appreciation
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will provide a general introduction to art through the study of artworks, theory, terminology, themes, design principles, media, techniques, with an introduction to the visual arts across time and diverse cultures.

ART-210A Fundamentals of Drawing
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the application and appreciation of basic drawing methods and material. Emphasis will be on problems of shape, line, value, texture, volume, light and shadow, proportions, pictorial composition, and expression. It includes the development of an appreciation for the integrity of both the emotional and intellectual responses to western and non-western works of human imagination. (C-ID ARTS 110)

ART-210B Intermediate Drawing
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will explore artistic concepts, styles, and creative expression related to intermediate-level drawing by focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing. (C-ID ARTS 205)

ART-213 Color and Composition
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will provide a foundation for all subsequent art courses. It covers the application and appreciation of the principles and elements of design including: line, value, shape, texture, space, color and organization of pictorial space. Included is the development of an appreciation for the integrity of both emotional and intellectual responses to western and non-western works on human imagination. (C-ID ARTS 100)

ART-214 Three-Dimensional Art and Design
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the application and appreciation of the principles and elements of three-dimensional design especially mass, volume, time, space, motion, surface and plane. Includes design and construction in a variety of three-dimensional materials. (C-ID ARTS 101)

ART-222A Painting-Watercolors I
1.5 - 3.0 Units / 0.75 - 1.5 hours LEC; 2.25 - 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will explore techniques, limits, and unique potentials of watercolor media in still life, landscape, and nonobjective painting. It includes instruction in color theory, tools, surfaces, and mixed media through a series of demonstrated skills.

ART-222B Painting-Watercolors II
1.5 - 3.0 Units / 0.75 - 1.5 hours LEC; 2.25 - 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will emphasize developing an understanding and appreciation of form, composition and personal expression while simultaneously improving skills in the use of watercolor paints and related media, tools and supplies. Prerequisite: ART 222A with a minimum grade of C

ART-228A Beginning Painting I
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce the principles, elements, and practices of painting. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter. (C-ID ARTS 210)
ART-228B Beginning Painting II  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will continue a study of the basic pictorial problems and painting challenges begun in Art 228A, introducing more complex subject matter, concepts, and processes.  
Prerequisite: ART 228A with a minimum grade of C

ART-228C Intermediate Painting I  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will examine the relationship between form and content in painting. Continue to strengthen foundation of painting: materials, techniques, form, space, organization, composition and color.  
Prerequisite: ART 228B with a minimum grade of C

ART-228D Intermediate Painting II  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will focus on individual expression and vision in painting. Apply, understand, and compare concepts, attitudes, and methods of traditional and contemporary approaches to painting.  
Prerequisite: ART 228C with a minimum grade of C

ART-229 Portrait Painting  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will introduce the principles, elements, and practices of painting portraits. In this course students develop their ability to organize and apply the basic formal elements and principles of design to painting portraits from photographs as well as live models. Students will apply and expand their knowledge of color theory, paint mixing and technique, as well as lighting and composition for portraiture.

ART-231A Beginning Figure Drawing  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will cover the introduction to the fundamentals of drawing the human figure using a variety of media with emphasis on the structural, kinetic and expressive elements of the human form. Emphasis is placed on the development of an appreciation for the integrity of both emotional and intellectual responses to western and non-western works of human imagination. (C-ID ARTS 200)

ART-231B Intermediate Figure Drawing  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will continue the basic pictorial problems and challenges begun in ART 231A, introducing more complex subject matter, concepts, and processes as related to the understanding and depiction of the human figure while exploring effective uses of multiple media types. Emphasis will continue to be placed on the development of an appreciation for the integrity of both emotional and intellectual responses to western and non-western works of human imagination.  
Prerequisite: ART 231A with a minimum grade of C

ART-232 Introduction to Printmaking  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will cover basic printmaking techniques including Collograph, monotype, linoleum cut, wood cut, drypoint etching, image transfer, low-tech lithography and screen print.

ART-234A Beginning Etching  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will make use of the etching process as a means of artistic expression. How to etch, ink and wipe a plate to produce multiple images through a series of structured projects. Presentation of the fine print, including care of prints, numbering of edition and matting techniques.
ART-234B Intermediate Etching  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will utilize etching at the intermediate level with the addition of more advanced techniques for processing and printing of plates. Mixing and wiping of colored inks will accompany integrating advanced etching techniques to yield more personalized imagery.  
Prerequisite: ART 234A with a minimum grade of C

ART-236A Beginning Screen-Printing  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will introduce color silkscreen printmaking as a fine art print medium. Students will explore multiple approaches to silkscreen printing such as paper stencil, block-out, and photo-stencils methods.

ART-236B Intermediate Screen-Printing  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will continue the exploration of the screen printing process as a fine art print medium. There will be an increased emphasis on individual projects at a more advanced level of sophistication.  
Prerequisite: ART 236A with a minimum grade of C

ART-240A Ceramics I  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will provide students with a beginning studio experience in ceramics and an introduction to the world of ceramic art. Students will be assigned ceramic projects informed by a study of historical ceramic artifacts of past cultures. In addition, some projects assigned will be guided by a study of contemporary ceramic artworks. Students will gain an appreciation for both contemporary and historic ceramic objects.

ART-240B Ceramics II  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will provide students with a beginning studio experience in ceramics and an introduction to the world of ceramic art. Student will be assigned ceramic projects informed by a study of historical ceramic artifacts of past cultures. In addition, some projects assigned will be guided by a study of contemporary ceramic artworks. The result of this study and practice being a gained appreciation for both contemporary and historic ceramic objects. In addition, it will advance the students practice in the use of glazes, underglazes, overglazes and other types of decoration.

ART-240C Advanced Ceramics I  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will continue building on the lessons and techniques studied in 240A and 240B with a focus on developing a personal language expressed in completion of assigned ceramic projects.

ART-240D Advanced Ceramics II  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will provide an advanced study for students who demonstrate mastery of skills and principles in ceramics taught in ART 240A, B and C. Studies include: personalized projects, investigating clay and glaze composition, and advanced design problems.

ART-246 Raku and Primitive Ceramics  
3.0 Units / 1.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will introduce students to Raku pottery and the primitive methods of making pottery. Examples and methods including primitive kilns and firing; Raku glazes, kilns, and firing; wheel and hand building pottery construction; native materials preparation and use; and decorating processes will be covered.
ART-247 Ceramic Casting and Mold Making

3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
CSU, UC

This course will teach the basic principles and practices of making molds and using them to produce ceramic forms and objects. Projects will include simple molds for plates, bowls and cups, and complex molds for sculptures and tea pots. Projects will also be inspired by historical and contemporary mold formed ceramic objects.

ART-250A Beginning Sculpture

3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
CSU, UC, MC (C)

This course will focus on the hands-on act of creating sculpture projects as a means of understanding the language of three-dimensional form. Assignments inspired and directed by the instructor's demonstrations and lectures will use diverse materials and techniques. Lectures, presentations and demonstrations will inform students of historical and contemporary sculpture and the cultures that created them. Assignments will be informed by both historical and contemporary sculpture as well as other topics of contemporary and cultural significance: personal, national, and cross cultural.

ART-250B Clay Sculpture I

3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
CSU, UC

This course will introduce the basic concepts and techniques of clay as a sculptural material. Projects in relief and three-dimension with relation to form, line, and space will be demonstrated and assigned. Lectures, presentations and demonstrations will inform students of historical and contemporary sculpture and the cultures that created them. Assignments will be informed by both historical and contemporary sculpture as well as other topics of contemporary and cultural significance: be they personal, national, and cross cultural.

ART-250C Clay Sculpture II

3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
CSU, UC

This course will provide the advanced sculpture student with projects to promote a greater awareness of forms and their relationships to space. In addition, projects will be assigned to bring out the student’s personal language. Students will learn to describe the uniqueness of form, decoration, proportion, and composition that each artist uses to give voice to their uniqueness as individuals.

ART-282 Introduction to Photography

3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
CSU, UC

This course will be an introduction to the processes, principles, and tools of photography. Topics to be covered include the development of technical and aesthetic skills, elements of design and composition, camera technology, materials and equipment and contemporary trends in photography.

ART-522 Watercolor Painting for Older Adults

0.0 Units / 1.5 hours LEC; 4.5 hours LAB
Noncredit Course

This course will introduce older adults to a variety of techniques unique to watercolor media through an exploration of still life, landscape and non-objective painting. The focus of the course is on the development of personal artistic interest, aptitude, creative self-expression and enrichment of quality of life. Course activities will promote or help maintain physical, mental, social and emotional well-being and accommodate varying skill levels. Instruction in color theory, tools, surfaces and mixed media techniques will be provided.

ART-582 Film Photography for Older Adults

0.0 Units / 1.5 hours LEC; 4.5 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress

This course will introduce older adults to a variety of techniques unique to traditional black and white film photography. Students will work with film cameras and learn about film processing, enlarging prints, using light effectively, and print finishing. The focus of the course is on the development of personal artistic interest, aptitude, creative self-expression and enrichment of quality of life. Course activities will promote or help maintain physical, mental, social, and emotional well-being and accommodate varying skill levels.
ASTRONOMY

AST-200 Astronomy  
3.0 Units / 3.0 hours LEC  
CSU (B1), UC, IGETC (5A), MC (A)  
Credit course for grade or Pass/No Pass  
This course will give students a broad survey of the universe from a contemporary perspective. Topics include the history of modern astronomy; motions of the Earth, Sun, and Moon; interpretation of light; the solar system and its contents; stellar formation and evolution; the Milky Way and other galaxies; and cosmology.

AST-200L Astronomy Observation  
1.0 Units / 3.0 hours LAB  
CSU (B3), UC, IGETC (5C), MC (A)  
Credit course for letter grade only  
This course will cover principles of astronomical observation and measurement, identification of constellations and celestial phenomena, and astronomical tracking and coordinate systems.  
Prerequisite: AST 200 with a minimum grade of C  
Corequisite: AST 200

ATHLETICS

ATH-200 Intercollegiate Baseball  
3.0 Units / 10.0 hours LAB  
CSU, UC  
Credit course for grade or Pass/No Pass  
This course will cover the skill fundamentals, game strategies, rules, regulations and conditioning appropriate to baseball for the purpose of participation in all scheduled events. Competing in intercollegiate athletics may be limited to those who possess the necessary physical skills. The passing of a medical examination is necessary for participation. All intercollegiate sports entail practice at the designated time and place; and meet for a minimum of ten hours per week.  
May be taken for a maximum of 2 enrollments

ATH-201 Theory and Analysis of Baseball I  
2.0 Units / 2.0 hours LEC  
CSU, UC  
Credit course for grade or Pass/No Pass  
This course will cover the basic strategies, rationale and skill fundamentals involved in intercollegiate baseball.

ATH-202 Theory and Analysis of Baseball II  
2.0 Units / 2.0 hours LEC  
CSU, UC  
Credit course for grade or Pass/No Pass  
This course will cover the advanced strategies, rationale and skill fundamentals involved in intercollegiate baseball.

ATH-204 Intercollegiate Basketball  
1.5 Units / 5.0 hours LAB  
CSU, UC  
Credit course for grade or Pass/No Pass  
This course will cover the skill fundamentals, game strategies, rules, regulations, and conditioning appropriate to basketball for the purpose of participation in all scheduled events. Competing in intercollegiate athletics may be limited to those who possess the necessary physical skills. The passing of a medical examination is necessary for participation.  
May be taken for a maximum of 4 enrollments

ATH-205A Theory and Analysis of Basketball I A  
1.0 Units / 1.0 hours LEC  
CSU, UC  
Credit course for grade or Pass/No Pass  
This course will cover the basic strategies, rationale and skill fundamentals involved in intercollegiate basketball.

ATH-205B Theory and Analysis of Basketball I B  
1.0 Units / 1.0 hours LEC  
CSU, UC  
Credit course for grade or Pass/No Pass  
This course will further cover the basic strategies, rationale and skill fundamentals involved in intercollegiate basketball.

ATH-206A Theory and Analysis of Basketball I I A  
1.0 Units / 1.0 hours LEC  
CSU, UC  
Credit course for grade or Pass/No Pass  
This course will cover the advanced strategies, rationale and skill fundamentals involved in intercollegiate basketball.
ATH-206B Theory and Analysis of Basketball IIB  
1.0 Units / 1.0 hours LEC  
Credit course for grade or Pass / No Pass  
The course will further cover the advanced strategies, rationale and skill fundamentals involved in intercollegiate basketball.

ATH-220 Intercollegiate Softball  
3.0 Units / 10.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will cover the skill fundamentals, game strategies, rules, regulations, and conditioning appropriate to softball for the purpose of participation in all scheduled events. Competing in intercollegiate athletics may be limited to those who possess the necessary physical skills. The passing of a medical examination is necessary for participation. All intercollegiate sports entail practice at the designated time and place, and meet for a minimum of ten hours per week.  
May be taken for a maximum of 2 enrollments

ATH-221 Theory and Analysis of Softball I  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover the basic strategies, rationale and skill fundamentals involved in intercollegiate softball.

ATH-222 Theory and Analysis of Softball II  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover the advanced strategies, rationale and skill fundamentals involved in intercollegiate softball.

ATH-226 Intercollegiate Soccer  
3.0 Units / 10.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will cover the skill fundamentals, game strategies, rules, regulations, and conditioning appropriate to soccer for the purpose of participation in all scheduled events. Competing in intercollegiate athletics may be limited to those who possess the necessary physical skills. The passing of a medical examination is necessary for participation.  
May be taken for a maximum of 2 enrollments

ATH-227 Theory and Analysis of Soccer I  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover the basic strategies, rationale and skill fundamentals involved in intercollegiate soccer.

ATH-228 Theory and Analysis Soccer II  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover the advanced strategies, rationale and skill fundamentals involved in intercollegiate soccer.

ATH-240 Intercollegiate Volleyball  
3.0 Units / 10.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will cover the skill fundamentals, game strategies, rules, regulations and conditioning appropriate to volleyball for the purpose of participation in all scheduled events. Competing in intercollegiate athletics may be limited to those who possess the necessary physical skills. The passing of a medical examination is necessary for participation. All intercollegiate sports entail practice at the designated time and place; and meet for a minimum of ten hours per week.  
May be taken for a maximum of 2 enrollments

ATH-241 Theory & Analysis of Volleyball I  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover the strategies, rationale and skill fundamentals involved in intercollegiate volleyball.
ATH-242 Theory & Analysis of Volleyball II
2.0 Units / 2.0 hours LEC
Credit course for grade or Pass/No Pass
This course will cover the advanced strategies, rationale and skill fundamentals involved in intercollegiate volleyball.

ATH-283 Conditioning for Intercollegiate Sports
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the physical fitness components related to intercollegiate athletic participation through advanced exercise programs. Emphasis is placed on individual and group activities that contribute to specific sport advancement.

AUTOMOTIVE TECHNOLOGY

AUT-51 Introduction to Automotive Technology
2.0 Units / 1.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This class will provide information and hands on training to students who are interested in automotive technology but may have little or no prior automotive experience. Topics will include theory and basic operating principles of the automobile. Students will have an opportunity to work on their own vehicle or a college-owned vehicle. Students will learn how to change oil, perform a vehicle inspection, change brake pads, read a micrometer, drill and tap threads, retrieve diagnostic codes with a scan tool, and other basic competencies. Students with two years of high school auto coursework may receive credit for AUT 51 through credit for prior learning.

AUT-140 Automotive Engines
4.0 Units / 2.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the principles of design and operation and the practices of diagnosis, inspection, service, and repair of modern automotive gasoline and diesel engines. This course prepares students for ASE (National Institute for Automotive Service Excellence) certification. Students with two years of high school auto coursework may receive credit for AUT 51 through credit for prior learning.
Prerequisite: Previous completion or concurrent enrollment in AUT 51, or any previous AUT courses with a minimum grade of C, or submission of a current ASE certification

AUT-142 Brakes/Suspension/Alignment
6.0 Units / 3.0 hours LEC; 9.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the design, operation, diagnosis, service, and repair of modern automotive suspensions, wheels and tires, manual and power steering systems, alignment, and braking systems including anti-lock brakes, computer-controlled suspensions, and four-wheel alignment. This course prepares students for ASE (National Institute for Automotive Service Excellence) certification. Students with two years of high school auto coursework may receive credit for AUT 51 through credit for prior learning. (C-ID AUTO 150 X)
Prerequisite: Previous completion or concurrent enrollment in AUT 51, or any previous AUT courses with a minimum grade of C, or submission of a current ASE certification

AUT-144 Manual Transmissions/Power Trains
3.0 Units / 1.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the design, operation, diagnosis, service, and repair of modern automotive manual transmissions, transaxles, clutches, transfer cases, and rear axles. This course prepares students for ASE (National Institute for Automotive Service Excellence) certification. Students with two years of high school auto coursework may receive credit for AUT 51 through credit for prior learning. (C-ID AUTO 130 X)
Prerequisite: Previous completion or concurrent enrollment in AUT 51, or any previous AUT courses with a minimum grade of C, or submission of a current ASE certification
AUT-145 Automatic Transmissions/Power Trains
4.0 Units / 2.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover design, operation, diagnosis, service, and repair of modern automotive automatic transmissions and transaxles. Students will also prepare for ASE certification in automatic transmissions. Students with two years of high school auto coursework may receive credit for AUT 51 through credit for prior learning.
Prerequisite: Previous completion or concurrent enrollment in AUT 51, or any previous AUT courses with a minimum grade of C, or submission of a current ASE certification

AUT-146 Automotive Air Conditioning/Heating Systems
2.0 Units / 1.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the basic operating principles, diagnosis, and servicing of modern automotive heating and air conditioning systems, emphasizing the development of diagnostic and service skills including servicing, evacuating, charging, flushing, and recycling of materials. The course prepares students for ASE (National Institute for Automotive Service Excellence) certification. Students with two years of high school auto coursework may receive credit for AUT 51 through credit for prior learning.
Prerequisite: Previous completion or concurrent enrollment in AUT 51, or any previous AUT courses with a minimum grade of C, or submission of a current ASE certification

AUT-162 Automotive Electrical Systems
5.0 Units / 3.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover electrical principles, theory and operation of automotive batteries, charging, starting, ignition and accessory circuits; emphasizing the development of diagnostic and service skills and the use of modern diagnostic equipment. Preparation for ASE (National Institute for Automotive Service Excellence) certification is emphasized. Students with two years of high school auto coursework may receive credit for AUT 51 through credit for prior learning.
Prerequisite: Previous completion or concurrent enrollment in AUT 51, or any previous AUT courses with a minimum grade of C, or submission of a current ASE certification

AUT-166 Automotive Engine Performance
6.0 Units / 4.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover basic principles, theory and operation of automotive fuel delivery, ignition and emission control systems, emphasizing the development of diagnostic and service skills and the use of modern diagnostic equipment. Preparation for ASE (National Institute for Automotive Service Excellence) certification is emphasized. Students with two years of high school auto coursework may receive credit for AUT 51 through credit for prior learning.
Prerequisite: AUT 162, with a minimum grade of C, or any current ASE certificate in Electrical Systems

AUT-170 Advanced Automotive Engine Performance
6.0 Units / 4.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will include an advanced study of modern electronic engine and emission control systems; their operation, diagnosis and repair. The course includes fuel injection, on-board diagnostics, electronic spark management, distributorless ignition, electronic control of emission systems, and multiplexing of computer control systems. Emphasis is placed on the development of diagnostic and service skills and the use of modern diagnostic equipment, and preparation for ASE (National Institute for Automotive Service Excellence) and California Smog Program Certification.
Prerequisite: AUT 166, with a minimum grade of C, or any current ASE certification in Engine Performance or Advanced Engine Performance

AUT-180 Introduction to Hybrid and Alternative Fuel Vehicles
4.0 Units / 2.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the introduction of principles, design, and operation of alternatively fueled vehicles and the practices of basic diagnosis, inspection, service, and repair of modern automotive Hybrid and Alternative Fuel Vehicles. This course prepares students for ASE (National Institute for Automotive Service Excellence) certification.
Prerequisite: AUT 162 and AUT 166, with a minimum grade of C, or current ASE Master Tech A1 through A8 certification
AUT-181 Hybrid Vehicles and Advanced Electric Vehicle Technology  
4.0 Units / 2.5 hours LEC; 4.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will provide an overview of both conventional and alternative fuels with their impact on vehicle emissions in gasoline engines. In addition, hands-on skills with advanced vehicle technologies such as hybrid electric, direct injection, and fuel cells are explored. Topics include gasoline, E85, M85, CNG, LPG, RNG, RVs, HEVs, Fuel Cells, and dynamometer testing. Completion of this course helps students prepare for the Automotive Service Excellence (ASE) F1 Alternative Fuels Certification in addition to the ASE L3 Hybrid/Electric Vehicle Specialist Certification.  
Prerequisite: AUT 180, with a minimum grade of C, or current ASE Master Tech A1 through A8 certification

AUT-199 Independent Study  
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.  
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

AUT-542 Brakes/Suspension/Alignment  
0.0 Units / 3.0 hours LEC; 9.0 hours LAB  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will cover the design, operation, diagnosis, service, and repair of modern automotive suspensions, wheels and tires, manual and power steering systems, alignment, and braking systems including anti-lock brakes, computer-controlled suspensions, and four-wheel alignment. This course prepares students for ASE (National Institute for Automotive Service Excellence) certification.  
Prerequisite: Previous completion or concurrent enrollment in AUT 551, or AUT 51, or any previous AUT course with a minimum grade of C, or submission of a current ASE certification  
Course is exempt from repeat provisions

AUT-544 Manual Transmission/Power Trains  
0.0 Units / 1.0 hours LEC; 6.0 hours LAB  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will cover the design, operation, diagnosis, service, and repair of modern automotive manual transmissions, transaxles, clutches, transfer cases, and rear axles. This course prepares students for ASE (National Institute for Automotive Service Excellence) certification.  
Prerequisite: Previous completion or concurrent enrollment in AUT 551, or AUT 51, or any previous AUT course with a minimum grade of C, or submission of a current ASE certification  
Course is exempt from repeat provisions

AUT-545 Automatic Transmissions/Power Trains  
0.0 Units / 2.0 hours LEC; 6.0 hours LAB  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will cover design, operation, diagnosis, service, and repair of modern automotive automatic transmissions and transaxles. Students will also prepare for ASE certification in automatic transmissions.  
Prerequisite: Previous completion or concurrent enrollment in AUT 551, or AUT 51, or any previous AUT course with a minimum grade of C, or submission of a current ASE certification  
Course is exempt from repeat provisions
AUT-551 Introduction to Automotive Technology
0.0 Units / 1.5 hours LEC; 1.5 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress
This course is designed for students who are interested in automotive technology but may have little or no prior automotive experience. Topics will include theory and basic operating principles of the automobile. Students will have an opportunity to work on their own vehicle or a college-owned vehicle. Students will learn how to change oil, perform a vehicle inspection, change brake pads, read a micrometer, drill and tap threads, retrieve diagnostic codes with a scan tool, and other basic competencies. Students with two years of high school auto coursework may receive credit for AUT 551 through credit for prior learning.
Course is exempt from repeat provisions

AUT-562 Automotive Electrical Systems
0.0 Units / 3.0 hours LEC; 6.0 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will cover electrical principles, theory and operation of automotive batteries, charging, starting, ignition and accessory circuits; emphasizing the development of diagnostic and service skills and the use of modern diagnostic equipment. Preparation for ASE (National Institute for Automotive Service Excellence) certification is emphasized.
Prerequisite: Previous completion or concurrent enrollment in AUT 551, or AUT 51, or any previous AUT course with a minimum grade of C, or submission of a current ASE certification
Course is exempt from repeat provisions

BASIC SKILLS
BSK-501 Academic Skills/Pre-High School Equivalency
0.0 Units / 5.0 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will provide instruction and individualized learning plans for math computation, reading comprehension, sentence and paragraph skills, and basic computer skills, as determined through initial assessment. It prepares students to enter BSK 502, High School Equivalency Preparation.
Course exempt from repeat provisions

BSK-502 High School Equivalency Exam Preparation
0.0 Units / 5.0 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will provide instruction and individualized learning plans for preparation for High School Equivalency tests (GED, HiSET & others). The course covers math computation, reading comprehension, sentence and paragraph skills, basic science, social studies, and basic computer skills, as determined through initial assessment. It includes background on testing options and helps the student determine readiness, and prepare them for taking the test.
Course exempt from repeat provisions

BIOLOGICAL SCIENCES
BIO-200 Concepts of Biology
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will introduce students to the characteristics, structures and processes of living organisms as they relate to society and the environment.

BIO-200L Concepts of Biology Lab
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide students with opportunities to conduct laboratory experiments and observations which investigate selected topics in the biological sciences.
Prerequisite: BIO 200 or BIO 202 with a minimum grade of C
Corequisite: BIO 200 or BIO 202
<table>
<thead>
<tr>
<th>COURSES</th>
<th>CSU, UC, IGETC (SB, SC), MC (A)</th>
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<tbody>
<tr>
<td><strong>BIO-202 Human Biology</strong></td>
<td>3.0 Units / 3.0 hours LEC</td>
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<tr>
<td><strong>Credit course for grade or Pass/No Pass</strong></td>
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<td>This course will introduce the student to the characteristics, structure, and processes of the human body as they relate to personal health, society, and the environment. This course is also designed for those students who need a review of the fundamentals of the human body before taking science courses required for the allied health sciences.</td>
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<tr>
<td><strong>BIO-202L Human Biology Laboratory</strong></td>
<td>1.0 Units / 3.0 hours LAB</td>
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<td><strong>Credit course for letter grade only</strong></td>
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<tr>
<td>This course will cover concepts and theories in human biology such as: organization, structure, function, heredity, evolution, the human species in the environment, and major human conditions and diseases. This laboratory course is recommended to be taken concurrently with or after successfully completing Human Biology (BIO 202).</td>
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<tr>
<td><strong>Prerequisite:</strong> BIO 202</td>
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<td><strong>Corequisite:</strong> BIO 202</td>
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<tr>
<td><strong>BIO-220 Marine Biology Lecture</strong></td>
<td>3.0 Units / 3.0 hours LEC</td>
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<td><strong>Credit course for grade or Pass/No Pass</strong></td>
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<td>This course will cover biological oceanography, natural history, taxonomy, and the ecology of the world's oceans with an emphasis on the Northern California coast.</td>
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<tr>
<td><strong>BIO-220L Marine Biology Laboratory</strong></td>
<td>1.0 Units / 3.0 hours LAB</td>
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<tr>
<td><strong>Credit course for grade or Pass/No Pass</strong></td>
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<tr>
<td>This course will cover laboratory procedures, field procedures and analysis of data on selected marine biology topics.</td>
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<tr>
<td><strong>Prerequisite:</strong> BIO 220</td>
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<tr>
<td><strong>Corequisite:</strong> BIO 220</td>
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<tr>
<td><strong>BIO-230 Human Anatomy</strong></td>
<td>5.0 Units / 3.0 hours LEC; 6.0 hours LAB</td>
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<tr>
<td><strong>Credit course for grade or Pass/No Pass</strong></td>
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<tr>
<td>This course will cover an introduction to human cytology and cellular organization, fundamental tissues and organ systems, and appropriate laboratory study of basic human anatomy. (C-ID BIOL 110B)</td>
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<tr>
<td><strong>Recommended Preparation:</strong> BIO 202 and eligibility for transfer-level math</td>
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<tr>
<td><strong>BIO-231 Human Physiology</strong></td>
<td>5.0 Units / 4.0 hours LEC; 4.0 hours LAB</td>
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<tr>
<td><strong>Credit course for grade or Pass/No Pass</strong></td>
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<tr>
<td>This course will cover the study of human organ systems and the associated physiological principles with appropriate practical experimentation in the laboratory. (C-ID BIOL 120B)</td>
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<td><strong>Prerequisite:</strong> CHM 200 or CHM 250 with a minimum grade of C</td>
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<tr>
<td><strong>Recommended Preparation:</strong> BIO 202 and eligibility for transfer-level math</td>
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<tr>
<td><strong>BIO-243 Biology of Marine Mammals</strong></td>
<td>3.0 Units / 3.0 hours LEC</td>
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<td><strong>Credit course for grade or Pass/No Pass</strong></td>
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<tr>
<td>This course will introduce students to the biology, ecology, behavior, natural history and diversity of marine mammals.</td>
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<tr>
<td><strong>BIO-245 Introduction to Environmental Toxicology</strong></td>
<td>3.0 Units / 3.0 hours LEC</td>
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<tr>
<td><strong>Credit course for grade or Pass/No Pass</strong></td>
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<tr>
<td>This course provides an introduction to biological, physiological and environmental processes and will cover biological principles of cell physiology, organ systems, biochemistry, and ecology. The biology, biochemistry and physiological impacts of natural and man-made toxic substances will be discussed. The course will employ case studies and the scientific method to discover how toxic substances affect individuals, populations, and ecosystems.</td>
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COURSES

BIO-250 Cell and Molecular Biology
4.0 Units / 3.0 hours LEC; 4.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover structure and function, origin, evolution and diversity of cells, biochemistry, metabolism, Mendelian genetics, molecular genetics and biotechnology, cell regulation, cell differentiation and evolutionary development. The philosophy of science, methods of scientific inquiry and experimental design are foundational to the course. This course is intended for biology majors. (C-ID BIOL 190)
Prerequisite: CHM 250 with a minimum grade of C

BIO-255 Botany, Plant Diversity, and Ecology
4.0 Units / 3.0 hours LEC; 4.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover comparative diversity, structure, and function of plant, fungal, and protistan phyla. Topics include development, morphology and physiology, taxonomy and systematics. Principles of population and community ecology and ecosystem interactions are emphasized. This course is intended for biology majors. (C-ID BIOL 155)
Prerequisite: MTH 80, with a minimum grade of C, or eligibility for transfer-level math
Recommended Preparation: BIO 200 or BIO 250 and CHM 250 with a minimum grade of C

BIO-257 Zoology, Animal Diversity, and Evolution
4.0 Units / 3.0 hours LEC; 4.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover a survey of animal phyla and non-photosynthetic, single-celled, eukaryotic taxa. It includes the comparative structure, function, and life cycles of animals, as well as principles of evolution, taxonomy, and systematics. Topics include development, morphology and physiology, phylogeny, and behavior of animals, as well as principles of evolution, mechanisms of evolutionary change, and speciation. This course is intended for biology majors. (C-ID BIOL 150)
Prerequisite: MTH 80, with a minimum grade of C, or eligibility for transfer-level math
Recommended Preparation: BIO 250 and CHM 250 with a minimum grade of C

BIO-259 Microbiology
5.0 Units / 4.0 hours LEC; 4.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the morphology, growth, metabolism, genetics, and ecology of bacteria and microorganisms and their role in areas related to human health and disease. Emphasis on laboratory techniques.
Prerequisite: BIO 231 or BIO 250 and CHM 200 or CHM 250 with a minimum grade of C

BUSINESS

BUS-50 Mathematical Applications in Business
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will cover the application of basic mathematical and algebraic skills to the business environment. Business applications include pricing, payroll, accounting, simple interest, compound interest, annuities, investments, statistics, and the Metric System.

BUS-106 Retail Management
CSU
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will provide students with an overview of management of retail businesses including retail promotions, visual merchandising, communications, customer service, inventory control, supervision of personnel.
Recommended Preparation: ENG 200

BUS-107 Customer Service
CSU
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will cover the principles and techniques of delivering excellent customer service. Topics include employer and customer perspectives, interpersonal communications, developing empathetic customer resolutions, customer retention strategies, as well as marketing and sales strategies. The course covers individualized communication and problem solving skill development as well as the efficacy of customer service in achieving general business, hospitality, food service, and retail industry goals.
BUS-108 Computerized Accounting  
3.0 Units / 3.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will cover the use of computerized accounting software in the accounting cycle from account set-up to through closing process.  
*Recommended Preparation:* Basic ability to use a Windows-based computer

BUS-110 Payroll Taxation  
3.0 Units / 3.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will cover current Federal and California laws and regulations relating to the payroll function of a business. Using computerized payroll software, this course will cover the fundamentals of record keeping, calculations, deductions and required payroll tax form preparation.

BUS-111 Federal Tax Accounting  
3.0 Units / 3.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will cover the fundamentals of federal income taxation using current forms, regulations, rulings, and procedures. Additional topics include tax incidence of individual and business income, deductions, and credits.

BUS-132 Entrepreneurial Management  
3.0 Units / 3.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will explore the entrepreneurial process, from idea generation and assessment, to business planning, launch, and growth. Students learn how to develop and assess a business idea, decide on an appropriate structure, prepare the basic components of a business plan, articulate a funding strategy, and prepare for the launch and management of a new enterprise.  
*Recommended Preparation:* ENG 200

BUS-134 Human Relations in Business  
3.0 Units / 3.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will examine the role of the supervisor/manager and provides an understanding of how to work with people in an organizational setting. It will also emphasize perception, motivation, communication, leadership styles, group dynamics, decision making, teamwork, diversity in the workplace and managing change. (C-ID HOSP 170 X when CAM 161 is also completed)  
*Recommended Preparation:* ENG 200

BUS-135 Human Resource Management  
3.0 Units / 3.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will provide a general introduction to the basic facets of Human Resource Management. Students will have the opportunity to investigate various Human Resource issues including interviewing, performance evaluations, hiring, compensation and benefits, and legal issues.  
*Recommended Preparation:* ENG 200

BUS-136 Introduction to Management  
3.0 Units / 3.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will provide students with basic knowledge of management concepts and vocabulary. Topics covered will include the management functions of planning, organizing, leading, controlling. Students will learn about the history of management philosophy, the characteristics of effective managers, business ethics, communication, diversity in the workplace, and team work.  
*Recommended Preparation:* ENG 200
BUS-150 Entrepreneurial Marketing  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will cover the nature, functions and importance of marketing as applicable to the entrepreneur. Topics will include creating and distributing goods and services, and promotional activities including advertising, e-commerce, public relations, and sales promotion.  
Recommended Preparation: ENG 200

BUS-151 Introduction to Marketing  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will explore the nature, functions, and importance of marketing. Topics covered will include consumer behavior, pricing, product development, market research, distribution, and elements of promotion such as public relations, advertising, social media, personal selling, and e-commerce.  
Recommended Preparation: ENG 200

BUS-170 Business Communication Skills for Managers  
3.0 Units / 3.0 hours LEC  
Credit course for letter grade only  
This course will cover the principles of effective and ethical communication for business managers and customer service professionals. The course will emphasize planning, organizing, composing, and revising business documents using word processing software for written documents and presentation-graphics software to create and deliver professional-level oral reports.  
Recommended Preparation: ENG 200

BUS-174 Introduction to Green Business Principles and Practices  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will introduce students to the concepts, principles, and practices that define a green business. Students learn the importance of including environmental and social considerations in business products, services, and operations and effective methods for doing so. Topics covered include the opportunities and challenges of starting a green business, greening an existing business, triple bottom line accounting, understanding your market, green-washing pitfalls, competitive advantage, life cycle analysis, localization, resource depletion, regulatory trends, and carbon regulation.  
Recommended Preparation: ENG 200 and SCT 200 with a minimum grade of C

BUS-200 Financial Accounting  
4.0 Units / 4.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will cover financial accounting as an information system of business managers, investors, and creditors. The course will focus on processing economic transactions through the accounting cycle according to Generally Accepted Accounting Principles (GAAP). This course covers the accounting process from source documents to the financial statements and statement analysis. This course covers generally accepted corporate accounting practices and current issues relating to asset, liability, and equity valuation; revenue and expense recognition; cash flow; internal controls and ethics. (C-ID ACCT 110)  
Recommended Preparation: BUS 50, with data-entry and spreadsheet software experience, and ENG 200

BUS-201 Managerial Accounting  
4.0 Units / 4.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will cover the accounting information system used by business managers to make decisions. The course will cover the use of analytical tools in the areas of: product pricing; profitability; cost behaviors and break-even; factory overhead cost application; operating and cash flow budgeting; capital investment using discounted valuation; centralized and decentralized performance evaluation; and activity based costing. (C-ID ACCT 120)  
Prerequisite: BUS 200 with a minimum grade of C  
Recommended Preparation: BUS 50, knowledge of spreadsheet software, and ENG 200
BUS-212 Legal Environment of Business
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will cover fundamental legal principles pertaining to transactions in the business environment. Legal topics include: the law as an instrument of social and political control in society; law and ethics; contract law; torts; agency; judicial and administrative processes; employment law; legal forms of business organizations; as well as domestic and international governmental regulations. (C-ID BUS 120)
Recommended Preparation: ENG 200

BUS-230 Introduction to Business
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will cover the complexities, relationships, and functions of such areas as management, marketing, accounting, finance, operations, human resources, information technology, legal issues, and the regulatory environment in business. (C-ID BUS 110)
Recommended Preparation: ENG 200

CHEMISTRY

CHM-199 Independent Study
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB
Credit course for grade or Pass / No Pass
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

CHM-200 Introduction to Chemistry
5.0 Units / 4.0 hours LEC; 3.0 hours LAB
Credit course for letter grade only
This course will study basic chemical principles including atoms, chemical bonds, gases, chemical reactions, aqueous solutions, pH, inorganic elements, and chemical calculations. This course is intended for health sciences, general education, and as a prerequisite for CHM 250. (C-ID CHEM 101)
Prerequisite: MTH 60, MTH 80, MTH 178, with a minimum grade of C, or placement into MTH 220

CHM-202 Introduction to Organic and Biochemistry
4.0 Units / 3.0 hours LEC; 3.0 hours LAB
Credit course for letter grade only
This course will study covalent bonding, organic molecules, chemical structures, functional groups, chemical reactivity and elementary mechanisms as it applies to organic and biochemistry. Families of molecules include alkanes, alkyl halides, alcohols, alkenes, alkynes, carbonyl compounds, benzene chemistry carboxylic acids, amines, di-functional compounds, amino acids, peptides, proteins, lipids carbohydrates, and nucleic acids.
Prerequisite: CHM 200 or CHM 250 with a minimum grade of C

CHM-250 General Chemistry I
5.0 Units / 4.0 hours LEC; 4.0 hours LAB
Credit course for letter grade only
This course will study general chemical principles including: measurements, matter, atomic structure, the periodic table, chemical bonding, energy, nomenclature, reactions, mass relationships, gases, and solutions. This course is often for science, engineering, and pre-professional majors. (C-ID CHEM 110)
Prerequisite: MTH 80, with a minimum grade of C, or placement into MTH 121 and CHM 200, with a minimum grade of C, or one year of high school chemistry
COURSES

CHM-251 General Chemistry II
5.0 Units / 3.0 hours LEC; 6.0 hours LAB
Credit course for letter grade only
This course will study general chemical principles including: Solutions, Chemical Kinetics, Chemical Equilibrium, Acids and Bases, Thermodynamics, and Electrochemistry. This course is often a requirement for science, engineering, and pre-professional majors. (C-ID CHEM 120S)
Prerequisite: CHM 250 with a minimum grade of C

CHM-255 Organic Chemistry I
5.0 Units / 3.0 hours LEC; 6.0 hours LAB
Credit course for letter grade only
The course will study the mechanisms and reactions of the hydrocarbons, alkyl halides, alcohols and ether compounds, as well as, the use of spectroscopy as it relates to the functional groups. This is an introduction to laboratory techniques of organic chemistry. Techniques include: separating, purification, synthesis, and isolation of organic compounds. This is the first semester of a two-semester sequence. This organic chemistry course is for science majors primarily in chemistry, chemical engineering, biochemistry, biology, environmental toxicology, pre-medical, pre-dental, and pre-veterinary. (C-ID CHEM 150)
Prerequisite: CHM 251 with a minimum grade of C

CHM-256 Organic Chemistry II
5.0 Units / 3.0 hours LEC; 6.0 hours LAB
Credit course for letter grade only
This course will study organic reactions, multi-step synthetic preparation, and mechanisms for various functional groups including: aromatic compounds, aldehydes, ketones, carboxylic acids, phenols, thiols, and the chemistry of biomolecules such as carbohydrates lipids, amino acids and proteins. This is the second semester of a two-semester sequence. This organic chemistry course is for science majors primarily in chemistry, chemical engineering, biochemistry, biology, environmental toxicology, pre-medical, pre-dental, and pre-veterinary. (C-ID CHEM 160S)
Prerequisite: CHM 255 with a minimum grade of C

CHILD DEVELOPMENT

CDV-70A Ages and Stages of Development
1.0 Units / 0.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This class will explore the ages and stages of development from birth to age 6.
Limitation on Enrollment: The student must have a child enrolled in Child Development Center.

CDV-70B Language and Literacy Development with Young Children
1.0 Units / 0.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce students to the process of language development in young children. It will include an examination of how to encourage early literacy.
Limitation on Enrollment: The student must have a child enrolled in the Child Development Center.

CDV-70C Guidance and Discipline for Young Children
1.0 Units / 0.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce a framework for implementing positive guidance techniques for young children.
Limitation on Enrollment: Student must have a child enrolled in the Child Development Center.

CDV-70D Math and Science for Young Children
1.0 Units / 1.0 hours LEC
Credit course for grade or Pass / No Pass
This course will introduce philosophy, principles and implementation of math as well as natural and physical science experiences for young children.
Limitation on Enrollment: Student must have a child enrolled at the Child Development Center.
CDV-79 Effective Adult-Child Relationships
1.0 Units / 1.0 hour LEC
Credit course for grade or Pass/No Pass
This course will explore strategies for establishing effective adult-child relationships and their role in the successful management of children's behavior. This course is cross listed as PSY-80.

CDV-100 Principles in Preschool Programs
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will examine the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all young children. This course includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity. (C-ID ECE 120)

CDV-101 Practices and Curriculum in Preschool Programs
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will present an overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to age 6. Students will examine a teacher's role in supporting development and engagement for all young children. This course provides strategies for developmentally-appropriate practice based on observation and assessments across the curriculum, including academic content areas; play, art, and creativity; and development of social-emotional, communication, and cognitive skills. (C-ID ECE 130)

CDV-106 Children with Special Learning Needs
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will introduce students to the field of special education. Instruction focuses on accommodating and adapting the physical environment, instructional strategies and curriculum to meet the needs of differently able children from birth through third grade.

CDV-107 Practicum in Child Development
4.0 Units / 2.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass/No Pass
This course will allow students to practice and demonstrate developmentally appropriate early childhood program planning and teaching competencies under the supervision of CDV faculty and other qualified early education professionals. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children. (C-ID ECE 210)
Prerequisite: CDV 100, CDV 101, CDV 180, and CDV 200, with a minimum grade of C
Limitation on Enrollment: Fingerprint clearance and negative Pulmonary Tuberculosis (TB) test results

CDV-108 Observation and Assessment
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will focus on the appropriate use of assessment and observation strategies to document development, growth, play and learning to join with families and professionals in promoting children’s success. Recording strategies, rating systems, portfolios, and multiple assessment tools are explored. (C-ID ECE 200)
Limitation on Enrollment: Negative TB test and Good Health Statement required for enrollment

CDV-109 Child Health, Nutrition, and Safety
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will introduce the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. This course will focus on integrating the concepts into everyday planning and program development for all children. (C-ID ECE 220)
CDV-120 Infants and Toddlers  
3.0 Units / 3.0 hours LEC  
**Credit course for grade or Pass/No Pass**  
This course will examine principles and philosophy of care for children up to three years of age including: growth and development, health and nutritional needs, social-emotional needs, cognitive development, language development, development of a positive self-image, community resources, and cultural and ethnic differences.

CDV-121 Infant/Toddler Curriculum  
3.0 Units / 3.0 hours LEC  
**Credit course for grade or Pass/No Pass**  
This course will explore different curricular areas for infant/toddler development including physical, emotional, social, and intellectual. Principles of child care, nutrition, health practices, and curriculum for children ages birth through three years will be discussed.

CDV-125 Creative Activities  
3.0 Units / 3.0 hours LEC  
**Credit course for grade or Pass/No Pass**  
This course will introduce students to educational activities suitable for children in art, music, movement, literature, and drama. It is designed for teachers, aides, parents and people who provide care for children ages two through eight. Students will gain an enhanced understanding of the interrelationship between creative arts and the self. Students will engage in creative and subjective responses to a variety of aesthetic experiences.

CDV-126 Music and Movement  
1.0 Units / 1.0 hours LEC  
**Credit course for grade or Pass/No Pass**  
This course will explore songs, rhymes, musical stories and creative movement activities for young children.

CDV-130 Administration of Preschools/Child Care Centers  
3.0 Units / 3.0 hours LEC  
**Credit course for grade or Pass/No Pass**  
This course will examine administrative principles and practices for Early Childhood Programs. Topics covered include: licensing regulations, leadership skills, budget preparation and analysis, personnel management, parent involvement programs and community resources. Professionalism and quality standard are emphasized. Partially fulfills licensing requirement for the director.

CDV-134 Advanced Administration of Preschools/Child Care Centers  
3.0 Units / 3.0 hours LEC  
**Credit course for grade or Pass/No Pass**  
This course will introduce students to the principles of administration of an Early Childhood Program. Students analyze state and federal regulations and learn how to apply the information to developing and supervising a comprehensive, culturally sensitive, developmentally appropriate program. In addition, students learn about how to write grants and proposals for funds, use advocacy skills for community improvement, develop leadership skills and team management techniques, develop a comprehensive parent partnership, work with program evaluation tools, and understand legal issues. This course partially fulfills the licensing requirement for the director.

CDV-135 Supervision of Adults in a Child Development Program  
3.0 Units / 3.0 hours LEC  
**Credit course for grade or Pass/No Pass**  
This course will explore methods and principles of supervising auxiliary staff and trainees in early childhood programs. It explores the role of experienced teachers who function as mentors to new teachers and staff while addressing the needs of children, parents and other staff.  
*Recommended Preparation: CDV 100 or CDV 101*

CDV-140 Working with School-Aged Children and Youth  
3.0 Units / 3.0 hours LEC  
**Credit course for grade or Pass/No Pass**  
This course will introduce students who are interested in working with school-aged children to the philosophies of programs for school children. This overview of programs and services covers the development of curriculum that is developmentally appropriate. Theories related to the growth and development of school age children and issues related to school age programs are explored.
### COURSES

**CDV-161 Active Learning and Play**

*CSU*

*1.0 Units / 1.0 hours LEC*

*Credit course for grade or Pass / No Pass*

An examination of the value of play and how to create an environment for active learning. Course may not meet major requirements at transfer institutions. See your counselor for more information.

*Recommended Preparation: CDV 101 or CDV 125*

**CDV-180 Child, Family and Community**

*CSU (D0), MC (B2), (D0), UC, IGETC (4I)*

*3.0 Units / 3.0 hours LEC*

*Credit course for grade or Pass / No Pass*

This course will examine the developing child in a societal context focusing on the interrelationship of family, school, and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. *(C-ID CDEV 110)*

**CDV-199 Independent Study**

*CSU*

*1.0 - 4.0 Units / 3.0 - 12.0 hours LAB*

*Credit course for grade or Pass / No Pass*

This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.

*Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.*

**CDV-200 Psychology of Development: Infancy through Adolescence**

*CSU (D9, E), UC, IGETC (4I), MC (B2, Wellness)*

*3.0 Units / 3.0 hours LEC*

*Credit course for grade or Pass / No Pass*

This course will examine the major physical, psychosocial, and cognitive/language developmental milestones for children both typical and atypical from conception through adolescence. There will be an emphasis on interactions between maturational process and environment factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. *(C-ID CDEV 100)*

**CDV-202 Multi-Cultural Perspective**

*CSU, UC, MC (B2, Culture)*

*3.0 Units / 3.0 hours LEC*

*Credit course for grade or Pass / No Pass*

This course will explore the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. *(C-ID ECE 230)*

### CLOTHING

**CLO-80 Beginning Clothing Construction**

*3.0 Units / 1.5 hours LEC; 4.5 hours LAB*

*Credit course for grade or Pass / No Pass*

This course will introduce basic clothing construction techniques. Emphasis is on the development of sewing skills, the use and care of equipment, and selection of proper tools, patterns, and fabric. No previous sewing experience is required.

**CLO-81 Intermediate Clothing Construction**

*3.0 Units / 1.5 hours LEC; 4.5 hours LAB*

*Credit course for grade or Pass / No Pass*

This course will cover the construction of garments from natural and synthetic fibers with emphasis on novelty fabrics. Focus is on custom garment construction, proper fitting and alterations, and advanced sewing techniques. Some sewing experience required.

*Recommended Preparation: CLO 80 or similar experience*
CLO-82 Pattern Drafting
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce drafting patterns from basic bodice, sleeve and skirt measurements as well as creating variations of collars, necklines, sleeves, bodices, skirts and pants. It will include how to use variations to modify commercial patterns for better fit and originality. Some sewing experience required.
Recommendation Prepared: CLO 80 and CLO 81

CLO-83 Tailoring
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will provide the student with intermediate to advanced sewing skills; specifically, custom tailoring techniques used in the construction of coats, suits, and sport coats. Emphasis will be on simplified construction techniques used in the fashion industry including hand-tailoring processes, designer patterns, specialty fabrics, plaids, stripes, napped fabrics, and more complex sewing techniques.
Recommendation Prepared: CLO 81

CLO-199 Independent Study
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB
Credit course for grade or Pass / No Pass
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.
Limitation on Enrollment: The student must be currently enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

COLLEGE AND CAREER SUCCESS

CCS-100 Career Planning Success
1.5 - 3.0 Units / 1.5 - 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will introduce the career planning process, which is designed to help students find the best career options, based on their strengths, interests, and values. Two/three unit courses also include developing job interviewing and resume writing skills.

CCS-101 Career and Life Planning
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will assist students in establishing and achieving education, career, and life goals through a comprehensive approach to effective planning. Students will examine how psychological, social, physical and environmental factors impact career and life choices.
Recommended Preparation: Computer literacy

CCS-119 Orientation to College
0.5 - 1.5 Units / 0.5 - 1.5 hours LEC
Credit course for grade or Pass / No Pass
This course will provide an overview of campus resources, requirements, and skills important to the success of new college students.

CCS-123 Test Taking Success
1.0 Units / 1.0 hours LEC
Credit course for grade or Pass / No Pass
This course will cover the nature and causes of test anxiety, provide tools for reducing test anxiety, and provide test taking and studying strategies to improve test results.
CCS-124 Becoming a Successful Online Student
1.0 Units / 1.0 hours LEC
Credit course for grade or Pass/No Pass
This course explores the theory and practice of successful online learning. The course familiarizes students with the course management system used for online courses at Mendocino College and many California Community Colleges and offers practical guidance and hands-on experience in a variety of approaches for increasing their online learning success.
Recommended Preparation: Computer literacy

CCS-221 Becoming a Master Student
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will provide an exploration of intellectual, psychological, social and physical factors that impact college learning, well-being and success. Students will learn critical college-level skills and strategies for motivation and stress management and build a community for academic and personal support.

COMMUNICATION STUDIES

COM-200 Mass Media and Society
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will introduce students to the history, structure, function and influence of all major forms of mass media and their support industries. (C-ID JOUR 100)

COM-201 Writing for the Mass Media
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will introduce reporting and writing for media, including print, online and broadcast. It will include applying the fundamentals of reporting, writing and critical thinking to a variety of audio visual mediums. Course content will focus on gathering multimedia elements and transforming these into a wide variety of multimedia projects. (C-ID JOUR 120)

COM-202 Argumentation and Debate
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will prepare students to present sound arguments and evaluate the arguments of others in both written and verbal formats. Students learn to assert a clear thesis and provide appropriate evidence in the context of verbal argument and debate. A series of writing assignments will focus on developing critical thinking skills, persuasive rhetoric, and sophisticated argumentative skills. The fundamentals of analysis, case building and dissent are discussed and applied to written assignments and oral presentations. (C-ID COMM 120)
Prerequisite: ENG 200 with a minimum grade of C

COM-203 Introduction to Public Speaking
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will introduce students to the theories and techniques of public speaking in a democratic society. Discovery, development, and criticism of ideas in public discourse through research, reasoning, organization, composition, presentation, and evaluation of various types of speeches including informative and persuasive speeches will be explored. (C-ID COMM 110)
Recommended Preparation: ENG 200

COM-210 Interpersonal Communication
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will introduce the student to interpersonal communication theories, rational dialogue, and cooperative analysis of communicative events. Students will study communicative interactions, their symbolic processes, reasoning and advocacy, and the effects of communication on people and society. (C-ID COMM 130)
COM-211 Intercultural Communication
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will introduce students to the influence of culture on identity, perception, social organization, and language in both domestic and global contexts. (C-ID COMM 150)
Recommended Preparation: ENG 200

COM-250 Introduction to Communication Studies
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will introduce students to the field of Communication Studies. Exploring communication theories and its foundational principles will help students recognize and use this complex, dynamic, and often misunderstood process. Students will also explore the various contexts of communication such as interpersonal, intercultural, gender, and group communication. (C-ID COMM 180)

COMPUTER SCIENCE
CSC-102 IT and Computer Science Career Exploration
1.0 Units / 1.0 hours LEC
Credit course for grade or Pass / No Pass
This course will provide Information Technology Instructors with a resource to introduce students to the many career opportunities in the Information Technology profession.

CSC-104 Computers and Computer Applications
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for letter grade only
This course will present the computer as a problem-solving tool, with a focus on word processing, spreadsheet, presentation, email and group scheduling applications. Additional topics include an introduction to fundamental computer concepts such as operating systems, hardware, networking and graphics.

CSC-105 Introduction to Linux I
1.5 Units / 1.25 hours LEC; 0.75 hours LAB
Credit course for grade or Pass / No Pass
This course will present a survey of Linux operating systems and related subject matter. Topics include Linux architecture, commands, file system, processes, and shell programming. Lectures and laboratory exercises provide a moderate understanding of Linux architecture and commands.

CSC-106 Introduction to Linux II
1.5 Units / 1.25 hours LEC; 0.75 hours LAB
Credit course for grade or Pass / No Pass
This course will present a continued survey of Linux operating systems and related subject matter. Topics include Linux system administration and advanced shell scripting.
Prerequisite: CSC 105 with a minimum grade of C

CSC-109A IT Support I
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for students to learn and practice information technology support operations at an introductory level of responsibility. Students will focus on working with a help desk system, preparing and validating troubleshooting procedures, and performing actual troubleshooting operations.
Recommended Preparation: CSC 116

CSC-109B IT Support II
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for students to learn and practice information technology support operations at an intermediate level of responsibility. Students will focus on working with a help desk system, preparing and validating troubleshooting procedures, performing actual troubleshooting operations, supervising other students, and performing operational analyses.
Prerequisite: CSC 109A with a minimum grade of C
CSC-116 Information & Communication Technology Essentials
4.0 Units / 3.0 hours LEC; 3.0 hours LAB
Credit course for letter grade only
This course will provide an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level ICT professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. This course also prepares students for the CompTIA A+ certification exams. (C-ID ITIS 110)

CSC-117 Computer Network Fundamentals
3.0 Units / 2.0 hours LEC; 3.0 hours LAB
Credit course for letter grade only
This course will introduce the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. This course also prepares students for entry-level industry certification exams such as the CompTIA Network+ certification exam and Cisco CCT/CCNA exams. (C-ID ITIS 150)

CSC-118 Introduction to Information Systems Security
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This course will provide students with an introduction to the fundamental principles and topics of Information Technology Security and Risk Management at the organizational level. It addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational Cybersecurity and Risk Management. This course also prepares students for the CompTIA Security+ certification exams. (C-ID ITIS 160)
Prerequisite: CSC 117 with a minimum grade of C

CSC-130 Web Design and Development
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This course will present technologies and best practices for the creation of web content with emphasis on user experience and responsive design. Tools and assignments will focus on design using the latest World Wide Web Consortium (W3C) standards for content and presentation.

CSC-134 Web Application Development
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for letter grade only
This course will explore web development, focusing on developing projects that integrate server- and client-side programming with the use of a solution stack such as LAMP. Students will develop scripts, databases, and interfaces to support web applications that generate and store dynamic content. This course will also include discussion and projects related to security and database integration.
Prerequisite: CSC 130 with a minimum grade of C

CSC-162 Microsoft Word, Advanced
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
The course will cover advanced features and functions of the latest version of Microsoft Word.
Prerequisite: CSC 104 with a minimum grade of C

CSC-164 Electronic Spreadsheets
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the use of electronic spreadsheets to solve business problems. Students will create a variety of spreadsheets from simple to complex using data, formulas and "what if" scenarios.
Prerequisite: CSC 104 with a minimum grade of C
CSC-166 Database
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the concepts, terminology uses and applications of database software in small businesses with emphasis on records management. Students will examine and learn to use modern database software to organize, store, and retrieve data and information.

CSC-170 Mobile Application Development
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the development of applications for mobile devices, including smartphones and tablets. Students will use modern tools and frameworks to build Mobile applications that incorporate various aspects of user interfaces, web services, animation, multimedia, and location awareness.

CSC-175 3D Modeling and Printing
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the design process for 3D printing. This course will utilize freely available 3D design applications and discuss the differences between organic, precision and CAD-based techniques. The content in this course is applicable to all first-time users of 3D printing technology from artists to engineers.
Recommended Preparation: Prior experience with Windows or Mac Personal Computer

CSC-180 3D Animation
4.0 Units / 3.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce the concepts that underlie the building of 3D animation projects with a focus on practical, hands-on examples. Industry standard animation and rendering tools will be used in this course.
Recommended Preparation: CSC 175 or DAM 205

CSC-185 3D Interactive Applications
4.0 Units / 3.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course introduces the design and development of 3 dimensional interactive applications such as video games, virtual reality and augmented reality applications, and simulations. This course will use a modern 3D game engine as the development platform.
Recommended Preparation: CSC 175, CSC 180, or CSC 221

CSC-199 Independent Study
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB
Credit course for grade or Pass/No Pass
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

CSC-210 Computer Organization and Architecture
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will explore the organization and behavior of real computer systems at the assembly-language level. The mapping of statements and constructs in a high-level language onto sequences of machine instructions is studied, as well as the internal representation of simple data types and structures. Numerical computation is examined, noting the various data representation errors and potential procedural errors. (C-ID COMP 142)
Prerequisite: CSC 221 with a minimum grade of C
CSC-210L Computer Organization and Architecture Lab
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will provide guided, hands-on activities to support student learning in the concepts associated with Computer Organization and Architecture (CSC 210). This course is highly recommended for students taking CSC 210 with no prior programming experience or those without a solid foundation in programming.
Corequisite: CSC 210

CSC-220 Introduction to Computer Science
4.0 Units / 3.5 hours LEC; 1.5 hours LAB
Credit course for letter grade only
This course will present an overview of computers and computer science. Lecture and hands-on assignments cover a wide range of topics, from bits and transistors to 3D games and the Internet. Other topics include data representation, computing components, low- and high-level programming languages, algorithm design, operating systems, information systems, simulation and graphics. Students will give short presentations on current events and near-future technology changes. This course is suitable for all majors and is a recommended first course for Computer Science majors, along with CSC 221.

CSC-221 Programming and Algorithms I
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will introduce the discipline of computer science using a high-level programming language, with a focus on practical, hands-on problem solving. It is intended both for computer science majors and for others seeking a general, formal introduction to computer programming. (C-ID COMP 122)

Recommended Preparation: Prior or concurrent enrollment in CSC 220

CSC-221L Programming and Algorithms I Lab
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will provide guided, hands-on activities to support student learning in the concepts associated with Programming and Algorithms I. This course is highly recommended for students taking CSC 221 with no prior programming experience or those without a solid foundation in programming.
Corequisite: CSC 221

CSC-222 Programming and Algorithms II
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will explore the application of software engineering techniques, data structures, and associated algorithms to the design and development of computer programs. Programs are written in an appropriate and modern object-oriented language. (C-ID COMP 132)

Prerequisite: CSC 221 with a minimum grade of C

CSC-222L Programming and Algorithms II Lab
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will provide guided, hands-on activities to support student learning in the concepts associated with Programming and Algorithms II. This course is highly recommended for students taking CSC 222 with no prior programming experience or those without a solid foundation in programming.
Corequisite: CSC 222

CSC-240 Discrete Structures
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will introduce the discrete structures used in Computer Science, with an emphasis on their applications. Topics covered include: Functions, Relations and Sets; Basic Logic; Proof Techniques; Basics of Counting; Graphs and Trees; and Discrete Probability. (C-ID COMP 152)

Prerequisite: CSC 221, with a minimum grade of C, and MTH 80 or high school college-prep Algebra II with a minimum grade of C
COURSES

CSC-500 Computer Laboratory
0.0 Units / 3.0 hours LAB
Noncredit Course
This course will provide Mendocino College students with personalized technical assistance on the use of theinstalled equipment and software on college desktop computers in order to facilitate student research, preparation, and completion of assignments from college courses.
Limitation on Enrollment: Concurrent enrollment in another Mendocino College course
Course is exempt from repeat provisions

CSC-520 Beginning Computer Skills I
0.0 Units / 3.0 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will present basic computer use topics for students with little or no computer experience. Students will learn basic computer terminology, and will introduce concepts such as file management and applications. This course will introduce tools and techniques such as keyboarding, using a mouse, selecting/ highlighting, and Internet basics and safety.
Course is exempt from repeat provisions

CSC-526 Beginning Computer Skills II
0.0 Units / 3.0 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will provide an introduction to the computer and the development of keyboarding skills. Topics include basic computer terminology, advanced file management, keyboarding, operating systems, and the Internet. Students will learn keyboarding, Internet use, and email.
Course is exempt from repeat provisions

CSC-531 Word Processing I
0.0 Units / 0.25 hours LEC; 0.25 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will present the computer as a problem-solving tool, with a focus on word processing. Basic features of word processing applications and tools will be demonstrated with opportunities to apply skills in projects and assignments. Word Processing I is designed for community members and professionals looking to improve their use of a computer as a problem solving tool.
Course is exempt from repeat provisions

CSC-532 Word Processing II
0.0 Units / 0.25 hours LEC; 0.25 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will present the computer as a problem-solving tool, with a focus on word processing. Intermediate features of word processing applications and tools will be demonstrated with opportunities to apply skills in projects and assignments. Word Processing II is designed for community members and professionals looking to improve their use of a computer as a problem solving tool.
Recommended Preparation: CSC 531
Course is exempt from repeat provisions

CSC-541 Spreadsheets I
0.0 Units / 0.25 hours LEC; 0.25 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will present the computer as a problem-solving tool, with a focus on spreadsheets. Basic features of spreadsheet applications and tools will be demonstrated with opportunities to apply skills in projects and assignments. Spreadsheets I is designed for community members and professionals looking to improve their use of a computer as a problem solving tool.
Course is exempt from repeat provisions

CSC-542 Spreadsheets II
0.0 Units / 0.25 hours LEC; 0.25 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will present the computer as a problem-solving tool, with a focus on spreadsheets. Intermediate features of spreadsheet applications and tools will be demonstrated with opportunities to apply skills in projects and assignments. Spreadsheets II is designed for community members and professionals looking to improve their use of a computer as a problem solving tool.
Recommended Preparation: CSC 541 Course is exempt from repeat provisions
CSC-551 Presentation I  
0.0 Units / 0.25 hours LEC; 0.25 hours LAB  
Noncredit course for Pass/No Pass or Satisfactory Progress  
This course will present the computer as a problem-solving tool, with a focus on presentations. Basic features of presentation applications and tools will be demonstrated with opportunities to apply skills in projects and assignments. Presentation I is designed for community members and professionals looking to improve their use of a computer as a problem solving tool.  
Course is exempt from repeat provisions

CSC-552 Presentation II  
0.0 Units / 0.25 hours LEC; 0.25 hours LAB  
Noncredit course for Pass/No Pass or Satisfactory Progress  
This course will present the computer as a problem-solving tool, with a focus on presentations. Intermediate features of presentation applications and tools will be demonstrated with opportunities to apply skills in projects and assignments. Presentation II is designed for community members and professionals looking to improve their use of a computer as a problem solving tool.  
Recommended Preparation: CSC 551  
Course is exempt from repeat provisions

COOPERATIVE WORK EXPERIENCE  
CED-50 Introduction to Work Experience  
1.0 - 3.0 Units / Credit course for grade or Pass/No Pass  
This course will provide students credit for achieving supervised, on-the-job learning objectives, and is intended for students who are new to employment and/or who are undecided about their career. The course helps students integrate classroom instruction with practical work experience and will assist them in acquiring desirable work habits, attitudes, and career awareness.  
May be taken for a total of 3 units

CED-195 General Work Experience  
1.0 - 6.0 Units / Credit course for grade or Pass/No Pass  
This course will enable students to earn college credit for learning or improving skills or knowledge while working. Any type of work is suitable. Faculty and employers help students create meaningful educational experiences by developing specific learning objectives. There are no classroom meetings after the initial orientation. There are no pre-requisites or concurrent enrollment requirements. Units are degree applicable and transferable. Units are awarded based on the achievement of learning objectives; additionally, each unit of Occupational Work Experience requires a paid employee to document 75 hours (volunteers - 60 hours) over the course of the semester.  
May be taken for a total of 16 units

CED-196 Occupational Work Experience Education  
0.5 - 8.0 Units / Credit course for grade or Pass/No Pass  
This course will enable students to earn college credit for learning or improving skills or knowledge on-the-job. Occupational Work Experience is “discipline-specific” in that students’ job and learning objectives relate to their academic and career goals. There are no prerequisites or concurrent enrollment requirements, and there are no classroom meetings after the initial orientation. Student can earn up to 8 units per semester (for a total of 16 combined CWEE units). Units are Degree applicable and transferable. Units are awarded upon achievement of approved learning objectives. Each unit requires paid employees to document 75 hours (volunteers or unpaid employees - 60 hours) during the semester.  
May be taken for a total of 16 units

CULINARY ARTS MANAGEMENT  
CAM-58 Chocolate and Confections  
1.0 Units / 0.5 hours LEC; 1.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will cover basic chocolate and confectionery techniques. Students will prepare a variety of classic and modern chocolate, crystalline, non-crystalline, and aerated confections.
COURSES

CAM-68 Food Preservation
1.0 Units / 0.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will teach students how to safely preserve high quality foods by canning, drying, pickling, and freezing. Cheese making will be introduced. The manufacture of food products for sale, including regulations, will be discussed.
Prerequisite: CAM 152, with a minimum grade of C, or a current Food Safety Manager’s Certificate. Students must provide a copy of their certificate. The Food Handler’s Certificate does not meet this requirement.
Corequisite: CAM 152

CAM-70A Seasonal Vegetarian Cuisine Late Summer/Early Fall
0.5 Units / 0.25 hours LEC; 0.75 hours LAB
Credit course for grade or Pass / No Pass
This course will cover how to prepare healthy, seasonal, local vegetarian dishes of the late summer/early fall season.

CAM-70B Seasonal Vegetarian Cuisine Late Fall/Early Winter
0.5 Units / 0.25 hours LEC; 0.75 hours LAB
Credit course for grade or Pass / No Pass
This course will cover how to prepare healthy, seasonal, local vegetarian dishes of the late fall/early winter season.

CAM-70C Seasonal Vegetarian Cuisine Late Winter/Early Spring
0.5 Units / 0.25 hours LEC; 0.75 hours LAB
Credit course for grade or Pass / No Pass
This course will cover how to prepare healthy, seasonal, local vegetarian dishes of the late winter/early spring. These dishes will be examined in historical, religious, and cultural contexts, with emphasis on their role in vegetarian diets globally.

CAM-70D Seasonal Vegetarian Cuisine Late Spring/Early Summer
0.5 Units / 0.25 hours LEC; 0.75 hours LAB
Credit course for grade or Pass / No Pass
This course will cover how to prepare healthy, seasonal, local vegetarian dishes of the late spring/early summer. These dishes will be examined in historical, religious, and cultural contexts, with emphasis on their role in vegetarian diets globally.

CAM-71 Food and Wine Pairing
1.0 Units / 0.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the role of food and wine pairing in the contemporary foodservice operation.
Limitation on Enrollment: Must be 18 or older

CAM-101 Culinary Skills I
3.0 Units / 1.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass / No Pass
This class will provide the foundation for developing the culinary knowledge and skills necessary to be successful in a food service kitchen. Through theory and practical application, students learn industry standard practices for appetizers, soups, salads, lunch and dinner entrees. Knife skills and proper use of commercial cooking equipment are emphasized. The course includes planning and preparing meals for the public. (C-ID HOSP 160 when CAM 152 is also completed; C-ID HOSP 160 X)
Prerequisite: CAM 152, with a minimum grade of C, or a current Food Safety Manager’s Certificate. Students must provide a copy of their certificate. The Food Handler’s Certificate does not meet this requirement.
Corequisite: CAM 152

CAM-102 Culinary Skills II
3.0 Units / 1.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover advanced culinary preparations and techniques. Students will apply skills learned in Culinary Skills I to more complex recipes using advanced preparation methods. Topics covered include flavor pairing, sauces, meat, poultry, egg and seafood dishes, presentation and selected bakery products. Recipes from a wide variety of styles and international cuisines will be incorporated and students will learn how to modify recipes into healthier alternatives.
Prerequisite: CAM 101 and CAM 152 with a minimum grade of C
Corequisite: CAM 152
CAM-120 Let’s Party: Introduction to Catering and Events  
1.0 Units / 1.0 hours LEC  
*Credit course for grade or Pass/No Pass*  
This course will cover the basics of catering and event planning, including menu development, client relations, pricing, types of events and equipment needs. Effective time management in production and setup is emphasized.

CAM-121A Catering Lab I  
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB  
*Credit course for grade or Pass/No Pass*  
This course will cover production of catered events for the Mendocino College Culinary Arts Management program. Students will cater various types of events such as breakfast, lunches, dinners, coffee breaks, fundraisers, workshops and meetings. This course is for the beginning student with little or no experience in food production.  
*Prerequisite:* CAM 120 and CAM 152 or a current Food Safety Manager’s Certificate - Students must provide a copy of their certificate. The Food Handler’s Certificate does not meet this requirement.  
*Corequisite:* CAM 120 and CAM 152

CAM-121B Catering Lab II  
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB  
*Credit course for grade or Pass/No Pass*  
This course will cover production of catered events for the Mendocino College Culinary Arts Management program. Students will cater various types of events such as breakfast, lunches, dinners, coffee breaks, fundraisers, workshops and meetings. This course is for the intermediate student with some experience in food production.  
*Prerequisite:* CAM 121A with a minimum grade of C

CAM-121C Catering Lab III  
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB  
*Credit course for grade or Pass/No Pass*  
This course will cover production of catered events for the Mendocino College Culinary Arts Management program. Students will cater various types of events such as breakfast, lunches, dinners, coffee breaks, fundraisers, workshops and meetings. This course is for the advanced student with significant experience in food production who is ready to take on a leadership role.  
*Prerequisite:* CAM 121B with a minimum grade of C

CAM-130A Baking I  
2.0 Units / 1.0 hours LEC; 3.0 hours LAB  
*Credit course for grade or Pass/No Pass*  
This course will cover baking techniques, with a focus on breads and batters, including basic cakes. The class will have an experimental approach, with students testing recipe variations to learn ingredient functionality while developing creativity. Quality standards for a bake shop will be used to guide product evaluation. The history and culture of various bakery items will be studied. (C-ID HOSP 180X when CAM 130B is also completed)  
*Prerequisite:* CAM 152, with a minimum grade of C, or a current Food Safety Manager’s Certificate. Students must provide a copy of their certificate. The Food Handler’s Certificate does not meet this requirement.  
*Corequisite:* CAM 152

CAM-130B Baking II  
2.0 Units / 1.0 hours LEC; 3.0 hours LAB  
*Credit course for grade or Pass/No Pass*  
This course will cover advanced baking techniques, with a focus on yeast and wild-fermented breads, laminated doughs, pies, tarts, and breakfast pastries. The class will have an experimental approach, with students testing recipe variations to learn ingredient functionality while developing creativity. Quality standards for a bake shop will be used to guide product evaluation. (C-ID HOSP 180X when CAM 130A is also completed)  
*Prerequisite:* CAM 130A with a minimum grade of C
CAM-130C Pastry and Desserts
1.0 Units / 0.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will focus on the understanding and production of pastries and a wide variety of desserts. Types of pastries include pastry dough, pate a choux, savory and sweet pies and tarts, and cream puffs. Students will explore desserts from a variety of cultures which may include custards, puddings, fruit desserts, fried desserts, specialty cookies, trifles, mousses, and tortes. Contemporary plated desserts are emphasized. Prerequisite: CAM 152, with a minimum grade of C, or a current Food Safety Manager’s Certificate. Students must provide a copy of their certificate. The Food Handler’s Certificate does not meet this requirement. Corequisite: CAM 152

CAM-140 Working the Room: Dining Room Service and Management
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the development of dining room skills, including table service, large party service, catering management, and point of sales systems.

CAM-152 Food and Equipment Safety and Sanitation
1.0 Units / 1.0 hours LEC
Credit course for grade or Pass / No Pass
This course will equip the student to prepare and store foods in a safe and sanitary manner, with attention to potentially hazardous foods. Topics covered include causes of foodborne illness and injury, how to minimize risk of foodborne illness using food safety controls, and government regulations. Facility design and maintenance and safe use of knives and commercial kitchen equipment will be discussed. Upon completion of this course, students will have the option to take a certification examination. (C-ID HOSP 160 when CAM 101 is also completed)

CAM-154 Food and Beverage Cost Control: How to Make (and Keep) Your Money in the Restaurant Business
1.5 Units / 1.5 hours LEC
Credit course for grade or Pass / No Pass
This course will cover all aspects of purchasing and cost control within the foodservice industry. Various costing techniques, menu item pricing, purchasing, forecasting, inventory maintenance, and labor scheduling are emphasized. (C-ID HOSP 130 when CAM 161 is also completed) Recommended Preparation: Ability to work with fractions and decimals

CAM-161 Food Start-ups: Business Planning for Restaurants, Caterers, and Food Trucks
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will cover food service management for all categories of operations. Topics include organizational structure, communication throughout the operation, event planning and management, on and off-site catering, dining room service and management, food and beverage marketing, legal considerations, job descriptions and hiring. Food Service math and computer applications will be integrated throughout the course. (C-ID HOSP 130 when CAM 154 is also completed; C-ID HOSP 170 X when BUS 134 is also completed) Prerequisite: CAM 154 with a minimum grade of C Corequisite: CAM 154

CAM-180 Modern Cuisine
3.0 Units / 2.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will explore rapidly changing techniques within the Culinary Arts. Students will learn modern techniques such as spherification, cryoblanching, sous vide, vacuum compression and hydrocolloid use. Prerequisite: CAM 152, with a minimum grade of C, or a current Food Safety Manager’s Certificate. Students must provide a copy of their certificate. The Food Handler’s Certificate does not meet this requirement. Corequisite: CAM 152

CAM-197A Culinary Arts Practicum
3.0 - 8.0 Units / Credit course for letter grade only
This course will provide Culinary Arts Management certificate students the opportunity to apply knowledge, skills and attitudes learned in the classroom in an actual work setting. Prerequisite: CAM 101 with a minimum grade of C
CAM-260 The Meaning of Food: The Forces That Shape Our Food Culture  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will provide students with an overview of the food system, through discussion of the past, present and future industry, with a focus on the United States, and an introduction to the global food system. Through cross-cultural study we analyze how what we eat defines who we are. Identity and social groups formed by food production, preparation and consumption are examined with attention to socio-economic, gender and race issues. Students will assess careers related to this system, with a focus on food service operations.  
Recommended Preparation: ENG 200  

DIGITAL ARTS AND MEDIA  
DAM-110 Digital Image Manipulation in Adobe Photoshop  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will serve as an in-depth exploration of pixel-based graphics using the current version of Adobe Photoshop, its tools, techniques and essential features. Students use Photoshop to create images in the most effective manner for print, web publishing and fine art applications. Students develop digital projects and learn appropriate file formats and terminology to effectively communicate with colleagues, printers, web developers in the field; learn how to apply visual design elements and principles; discover their personal style. They are also introduced to the evolving role of the Photoshop artist and designer working professionally today.  

DAM-125 Introduction to Desktop Publishing with Adobe InDesign  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will cover methods and techniques for layout, planning and producing a variety of printed materials. Basics of page layout, font selection and formatting, setting defaults, text and graphic placement, graphic scanning, and laser printing will be covered. Typical software uses include: self-published books, newspapers, newsletters, art catalogs, zines, brochures, magazines, interactive digital publications, pamphlets, advertisements, promotional and public relation materials.  

DAM-205 Introduction to Digital Art and Design  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for letter grade only  
This course will explore design and layout considerations for various production media. Students will study elements and principles of design including color theory, line, texture, pattern, balance, space and movement. Integration of traditional design with contemporary digital tools such as scanned resources, vector drawing, and bitmap painting. Students will be introduced to computer graphics creation using industry standard software packages.  

DAM-250 Introduction to Video Production  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for letter grade only  
This course will have students combine skills in digital graphic design, creative writing, and movie-making (using Adobe Premiere), with music and voice over to produce multimedia videos in a digital format. Recording formats and mechanics, basic cinematography styles and techniques, lighting, sound-recording; planning shoots with scripts, directorial guidance, and postproduction specifications in studio and field environments will be addressed. The student will gain the basic knowledge and skills needed to create digital video projects for marketing, advertising, PR, instruction and more.  

DAM-281 Digital Design Using Adobe Illustrator  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will serve as an in-depth exploration of vector-based computer graphics using the current version of Adobe Illustrator, its tools, techniques and essential features. The student will learn to use Illustrator in combination with scanners, digital cameras, typography and other graphic elements and tools. Students will produce effective graphic design projects for web pages and print media, learn how to create precise, editable vector graphics that stay sharp when scaled to any size and practice creating their own original artwork. The course will have an emphasis on graphic design and fine art principles, which are key to producing designs that communicate a message in a clear and professional manner. (C-ID ARTS 250)
EARTH SCIENCE
EAS-210 Geology of California
4.0 Units / 3.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will focus on the theory of plate tectonics and earthquake seismology in order to explore the geologic history of California. The varied landscapes and rocks of California are viewed within the plate tectonic model, and the geologic provinces that are associated with various aspects of plate tectonic activity are presented to illustrate the evolution of California through geologic time. (C-ID GEOL 200)
Recommended Preparation: ENG 200

EAS-211 Weather and Climate
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will introduce the key aspects involved in understanding weather patterns and our changing climate. By studying atmospheric layering and function, the Earth-Sun relationship, and the air mass modification and air circulation patterns within the troposphere, meteorological phenomenon are classified and described with common examples. Components critical for climate characterization are explored in order to understand global climate change. (C-ID GEOG 130)
Recommended Preparation: ENG 200

EAS-212 Introduction to Geographic Information Systems
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will introduce basic scientific principles as they relate to working with data that have important spatial orientation and organization. Geometric and geographic concepts and theories are used to develop scientific methods for proper communication of the data and the solution of problems that have spatial relationships. The course covers basic concepts in mapping and orientation, the development of map scales and comparison of different coordinate systems, and data error analysis.
Recommended Preparation: ENG 200

ECONOMICS
ECO-200 Principles of Macroeconomics
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will cover aggregate economic analysis. Topics include market systems; national income accounting, monetary and fiscal policies, central banking systems, international economics, key indicators of economic growth, inflation, unemployment and economic development. (C-ID ECON 202)
Prerequisite: MTH 80, with a minimum grade of C, or one year of college-prep Algebra II

ECO-201 Principles of Microeconomics
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will cover individual economic decision-making. Topics include fundamental economic concepts such as price determination, supply and demand, elasticity, theories of cost and revenue behavior, profit maximization vs. socially optimal output, market structures, factors of production, and gains from trade. (C-ID ECON 201)
Prerequisite: MTH 80, with a minimum grade of C, or one year of college-prep Algebra II

EDUCATION
EDU-103 Teaching Students in the Contemporary Classroom
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will prepare prospective, new, and experienced teachers to respond effectively to the needs of students from diverse backgrounds. Topics include income disparities, family and language backgrounds, race, ethnicity, and gender; and learning abilities.
EDU-110 Tutoring Methods  
1.0 Units / 1.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will cover effective tutoring techniques. Topics include planning the tutoring session; effective communication skills; reading, writing and study assistance; and techniques for working with students with a variety of learning abilities, and multilingual learners.

EDU-130 Bilingual Education in the United States: Yesterday and Today  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will examine, explore, and analyze of the history of bilingual education and its impact on educational opportunities for culturally and linguistically diverse students in the U.S. Topics include the socio-political debate surrounding bilingual education, the needs of culturally and linguistically diverse students, and 2nd language acquisition theory and teaching strategies.

EDU-132 Field Work in K-12 Education  
1.0 - 3.0 Units / 3.0 - 9.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will allow students to utilize practical classroom experiences to make connections between theory and practice and develop professional behaviors. Students will observe, design, implement, and evaluate experiences that promote positive development and learning for children.  
Prerequisite: EDU 200 with a minimum grade of C  
Corequisite: EDU200

EDU-155 Teaching the Older Adult Student  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will prepare college instructors to respond effectively to the needs of the older adult student. The course will review the developmental stages of life with a particular focus on the later stages. Adult learning theories will be covered with an emphasis on the application of culturally responsive teaching strategies for older adult students. Specific attention will be given to the learning characteristics of older adult learners and the use of appropriate accommodations and resources to foster a supportive learning environment in a college setting.

EDU-200 Introduction to the Teaching Profession  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will introduce students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through grade 12 (K-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. (C-ID EDUC 200)  
Recommended Preparation: ENG 200

EDU-500 Supervised Tutoring  
0.0 Units / 2.0 hours LAB  
Noncredit Course  
This course will support students' academic success in an open enrollment lab through assistance by trained student tutors.  
Limitation on Enrollment: Students must be enrolled in the course for which they receive tutoring.  
Course exempt from repeat provisions.
EMERGENCY MEDICAL SERVICES

EMS-56 EMT-I Refresher
1.0 Units / 0.8 hours LEC; 0.6 hours LAB
Credit course for grade or Pass / No Pass
This course will meet the minimum standards for Emergency Medical Technician I refresher training, pursuant to Title 22, California Administrative Code. Includes review of EMT-I scope of practice including use of Automated External Defibrillator (AED). Supplemental Advanced Life Support information regarding IV therapy and advanced airway management will be provided as information only.
Prerequisite: HLH 135 or current EMT-I certification and current CPR card

EMS-69 Wilderness Emergency Medicine
2.0 Units / 2.0 hours LEC
Credit course for grade or Pass / No Pass
This course will enhance existing knowledge of emergency medicine with information regarding emergency response in wilderness settings. This course is for information only and does not prepare students for, or provide certification in Wilderness Emergency Medicine.

EMS-135 Emergency Medical Technician
7.0 Units / 6.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will prepare students to take the qualifying examination for EMT-I certification pursuant to Title 22, Section 10011, 10035 and 10037, of the California Administrative Code. The course includes basic assessment and treatment of life threatening injuries, extrication of the injured, and basic ambulance procedures
Prerequisite: CPR card
Recommended Preparation: A criminal background check, 10 panel drug screen, negative TB test and flu shot may be required to complete the field portion of class. This portion of the class occurs sometime between the 12th and 16th week of the semester. While not required for enrollment in the course, these advisories may be necessary to complete the field portion of the class.

EMS-202 First Aid, Emergency Care, and Cardiopulmonary Resuscitation
3.0 Units / 2.25 hours LEC; 2.25 hours LAB
Credit course for grade or Pass / No Pass
MC (Wellness)
This course will qualify students for American Red Cross certification in First Aid, CPR, AED and Oxygen Delivery for the Professional Rescuer. (C-ID KIN 101)

EMS-550 Community First Aid/CPR/AED
0.0 Units / 0.5 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will provide instruction on the knowledge and skills necessary to perform Adult, Child and Infant cardiopulmonary resuscitation (CPR). Additional training will include the use of an automated external defibrillator (AED) and basic first aid as the first link in the Emergency Medical Services (EMS) system. Methods of instruction will coordinate lecture with hands-on skill demonstration and practice of CPR and first aid techniques. Satisfactory completion of the course will entitle the student to certifications in Community CPR (valid for 2 years) and Basic First Aid (valid for 3 years).
Course is exempt from repeat provisions

ENGINEERING

EGR-199 Independent Study
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB
Credit course for grade or Pass / No Pass
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.
EGR-202 Statics             CSU, UC
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will provide students with a vectorial treatment of the principles of statics with application to
ing engineering problems and an emphasis on common engineering computational tools.
Prerequisite: PHY 214 or PHY 220 with a minimum grade of C

ENGLISH

ENG-41A English Bridge A
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course taken for Pass / No Pass only
This course will review basic rules of grammar, sentence structure, and language usage. Topics will also include
support for reading and writing skills needed for success in English classes. Students will engage in work which
supports them in success in their current English class and/or the class they expect to take in the following semester.

ENG-41B English Bridge B
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course taken for Pass / No Pass only
This course will offer students a second semester bridge class to support their next level of English. Topics will
include review of grammar, sentence structure, and language usage. Instruction will emphasize support for academic
reading and writing skills needed for success in English classes. Students will engage in work which supports them
in success in their current English class and/or the class they expect to take in the following semester.

ENG-41C English Bridge C
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course taken for Pass / No Pass only
This course will offer students a third semester bridge class to support their next level of English. Topics will include
any brush up needed of grammar and punctuation. Topics will emphasize reading and writing skills needed for
success in transfer-level English classes. Students will engage in work which supports them in success in their current
English class and/or the class they expect to take the following term.

ENG-49 Grammar in Context
1.0 Units / 1.0 hours LEC
Credit course taken for Pass / No Pass only
This course will address the basic rules of grammar, sentence structure, and language usage. Topics will include
support for writing skills needed for success in academic and non-academic courses. The focus of the course may be
on review and skill acquisition or strengthening language acquisition for various students, including multi-lingual
students.

ENG-60 Reading and Writing Laboratory
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course taken for Pass / No Pass only
This course will provide support for students completing reading and writing assignments from any class. Students
will have the opportunity to work on their assignments, get help as needed from an English instructor, and be
directed toward other campus resources for reading and writing support.

ENG-65 Academic Literacy
2.0 Units / 2.0 hours LEC
Credit course taken for Pass / No Pass only
This course will incorporate and contextualize reading and writing strategies aligned to English 200 coursework.
Students will read and comprehend sophisticated texts and respond to diverse ideas and perspectives through
writing expository and/or persuasive compositions.
Corequisite: ENG 200

ENG-80 Preparation for Academic Reading and Writing
4.0 Units / 4.0 hours LEC
Credit course for grade or Pass / No Pass
This course will focus on the academic reading and writing skills necessary for success in college courses. A variety
of genres will be explored with an emphasis on expository reading and writing assignments.
Corequisite: Concurrent enrollment in ENG 60, ENG 160, or ENG 560
ENG-85 Advanced Preparation for College Composition
4.0 Units / 4.0 hours LEC
Credit course for Pass/No Pass only
This course will prepare students for transfer-level college writing. Students will review English fundamentals, read and analyze professional essays, and write essays with an emphasis on exposition and critical thinking and access student services.
Corequisite: Concurrent enrollment in ENG 60, ENG 160, or ENG 560

ENG-160 Transfer-Level Reading and Writing Lab CSU
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course taken for Pass/No Pass only
This course will provide support for students completing reading and writing assignments from university level courses. Particular attention will be paid to assignments requiring documented research, argumentative writing, and other assignments requiring advanced writing and critical thinking skills. Students will have the opportunity to work on their assignments, get help as needed from an English instructor, and be directed toward other campus resources for reading and writing support.
Recommended Preparation: Students should be co-enrolled in a transfer level course with university level reading and/or writing assignments.

ENG-199 Independent Study CSU
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB
Credit course for grade or Pass/No Pass
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

ENG-200 College Composition CSU (A2), UC, IGETC (1A), MC (D1)
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will fulfill the requirements of the first semester of freshman composition at the university level. All sections are both writing and reading intensive. Topics covered include thesis development and support, writing essays in various rhetorical modes, close reading, and completion of a thorough, properly cited research paper. (C-ID ENGL 100)
Prerequisite: ENG 85 or placement into ENG 200 through the placement process
Corequisite: Concurrent enrollment in ENG 60, ENG 160, or ENG 560

ENG-201 Critical Thinking through Literature CSU (A3, C2), UC, IGETC (1B, 3B), MC (C)
4.0 Units / 4.0 hours LEC
Credit course for grade or Pass/No Pass
This course will develop critical thinking, reading and writing skills beyond the level achieved in English 200. It emphasizes logical reasoning, analysis, and strategies of argumentation through the exploration of literature. Students completing this course will be able to understand and utilize important concepts employed in literary analysis as well as the rhetoric used in the study of formal logic. (C-ID ENGL 110, ENGL 120)
Prerequisite: ENG 200 with a minimum grade of C

ENG-205 Critical Thinking CSU (A3), UC, IGETC (1B), MC (D2)
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will offer instruction in argumentation and critical writing, critical thinking, analytical evaluation of texts, research strategies, information literacy, and proper documentation. (C-ID ENGL 105)
Prerequisite: ENG 200 with a minimum grade of C
ENG-210 Creative Writing  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will introduce students to the process of writing and revising creative work in four primary genres: fiction, poetry, drama and creative nonfiction. ENG 210 is a creative writing course suitable for students who are beginning their exploration of writing, as well as those who have been writing for several years. The course explores the primary genres via instruction and the "workshop" model that provides written and verbal feedback to submitted manuscripts. (C-ID ENGL 200)  
Prerequisite: Eligibility to enroll in ENG 200  
Recommended Preparation: ENG 200

ENG-212 Intermediate Creative Writing  
3.0 Units / 3.0 hours LEC  
Credit course for letter grade only  
This course will enable students to develop a broader understanding of the techniques for writing and revising in the major genres of fiction, poetry, drama, and creative nonfiction. Students will study and practice literary craft, and develop more advanced approaches to the exchange of verbal and written literary critique in a workshop setting.  
Prerequisite: ENG 210 with a minimum grade of C

ENG-225 Introduction to Shakespeare  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will explore representative works of Shakespeare, including tragedies, comedies, histories, and sonnets. Students will develop an awareness of the various critical approaches to Shakespearean texts as well as the cultural context within the Elizabethan era.  
Prerequisite: ENG 200 with a minimum grade of C

ENG-245 American Literature I  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will introduce students to America’s literary traditions from their beginnings to the second half of the nineteenth century. (C-ID ENGL 130)  
Prerequisite: ENG 200 with a minimum grade of C

ENG-246 American Literature II  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will introduce students to a wide range of American authors and their relationship to major literary and intellectual movements from the second half of the nineteenth century to the present. (C-ID ENGL 135)  
Prerequisite: ENG 200 with a minimum grade of C

ENG-250 World Literature  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will offer a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from the mid or late seventeenth century to the present. (C-ID ENGL 145, ENGL-LIT 185)  
Prerequisite: ENG 200 with a minimum grade of C

ENG-265 Introduction to California Literature  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will examine the literature of California in the context of its social, political, and historical evolution through the viewpoints of California authors. Content will include a range of literature (fiction/non-fiction, poetry, memoirs, essays, exploration accounts) which examine the diversity of the unique California experience.  
Prerequisite: ENG 200 with a minimum grade of C
ENG-270 Children's Literature  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will introduce representative works of children’s literature and develop students’ close reading and analytical writing skills while promoting an appreciation for the aesthetic qualities of literature written for children. (C-ID ENGL 180)  
Prerequisite: ENG 200 with a minimum grade of C

ENG-503 Creative Writing for Older Adults  
0.0 Units / 1.5 - 3.0 hours LEC  
Noncredit Course  
This course will introduce older adults to a variety of creative writing skills. The focus of the course is on preserving intellectual acuity through the writing of creative fiction and non-fiction. Written expression is explored through the development of memoirs, personal essays, stories, poems, and/or short scripts. Students will have the opportunity to sharpen creative writing skills, computer skills, and interact with a supportive community of fellow writers. This course provides older adults an opportunity to recall, organize, and share life experiences about events, family, health, or work, as well as by the use of imagination. The instructor will provide help as needed in the basics of plot, point of view, characterization, dialogue, setting, and revision.  
Course exempt from repeat provisions

ENG-560 Basic Reading and Writing Lab  
0.0 Units / 1.0 - 3.0 hours LAB  
Noncredit Course  
This course will provide basic reading and writing skills support for students completing assignments from any class. Students will have the opportunity to work on their assignments, get help as needed from an English instructor, and be directed toward other campus resources for reading and writing support. This noncredit class is available on a drop-in basis throughout the semester. See the course schedule for locations/times available.  
Course exempt from repeat provisions

ENGLISH AS A SECOND LANGUAGE

ESL-3 English as a Second Language: Oral Communication Skills  
1.0 - 3.0 Units / 1.0 - 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will be a beginning to intermediate level oral communication course designed to improve listening and speaking skills needed for successful interaction in workplace, academic, and social environments.

ESL-5 English as a Second Language: Laboratory  
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will offer support for English as a Second Language (ESL) students in reading, writing, listening, and speaking through supplementary instruction and supervised practice.

ESL-7A English as a Second Language: Beginning A  
5.0 Units / 5.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will promote the development of beginning grammar skills in context, with authentic language production in the four skills areas: reading, writing, listening, and speaking. Students will expand vocabulary and oral proficiency and develop competency in sentence level syntax and longer written assignments. This course along with one semester of ESL 7B will cover the grammar topics necessary to complete the beginning level of ESL.

ESL-7B English as a Second Language: Beginning B  
5.0 Units / 5.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will promote the development of beginning grammar skills in context, with authentic language production in the four skills areas: reading, writing, listening, and speaking. Students will expand vocabulary and oral proficiency and develop competency in sentence level syntax and longer written assignments. This course along with one semester of ESL 7A will cover the grammar topics necessary to complete the beginning level of ESL.
ESL-9A English as a Second Language: Intermediate A
5.0 Units / 5.0 hours LEC
Credit course for grade or Pass / No Pass
This course will develop skills in reading, writing, and speaking which will help to prepare students for college-level work in English. Students will continue to develop competency in sentence organization, paragraph writing, and the development of longer pieces of writing. Students will improve their confidence in speaking English in academic and other settings. This course along with ESL 9B will cover the grammar topics necessary to complete the intermediate level of ESL.

ESL-9B English as a Second Language: Intermediate B
5.0 Units / 5.0 hours LEC
Credit course for grade or Pass / No Pass
This course will develop skills in reading, writing, and speaking which will help to prepare students for college-level work in English. Students will continue to develop competency in sentence organization, paragraph writing, and the development of longer pieces of writing. Students will improve their confidence in speaking English in academic and other settings. This course along with ESL 9A will cover the grammar topics necessary to complete the intermediate level of ESL.

ESL-11A English as a Second Language: Advanced A
5.0 Units / 5.0 hours LEC
Credit course for grade or Pass / No Pass
This course will develop communicative competence in advanced grammar topics in the context of a variety of writing forms, reading comprehension and speaking, which are necessary for college work in English. Students will improve vocabulary and the ability to use English in the classroom and in other situations. This course along with ESL 11B will cover the grammar topics necessary to complete the advanced level of ESL.

ESL-11B English as a Second Language: Advanced B
5.0 Units / 5.0 hours LEC
Credit course for grade or Pass / No Pass
This course will develop communicative competence in advanced grammar topics in the context of a variety of writing forms, reading comprehension and speaking, which are necessary for college work in English. Students will improve vocabulary and the ability to use English in the classroom and in other situations. This course along with ESL 11A will cover the grammar topics necessary to complete the advanced level of ESL.

ESL-13 Bridge to English 200
5.0 Units / 5.0 hours LEC
Credit course for grade or Pass / No Pass
This ESL course will prepare multilingual students for ENG 200 coursework. This course focuses on engaged reading, critical thinking, and writing skills through participation in the academic writing process that results in producing both short and full-length essays. The focus will be on common challenges and themes with particular relevance for multilingual writers, including 2nd language acquisition and the brain, language and society, and grammatical error patterns which may interfere with meaning.
Advisory: This course is designed for ESL program certificate holders, high school graduates with fewer than four years of high school completed in the U.S., students who still need language development support and/or have limited/interrupted formal education in U.S. and/or birth countries, international students, and other Generation 1.5 students.

ESL-500 English as a Second Language: Preparatory Level
0.0 Units / 5.0 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will help pre-beginning level students to develop reading, writing, listening, and speaking skills in English as a Second Language. Students will better understand college resources, gain confidence in an academic environment, and interact in English in a communicative classroom. This course will prepare students for beginning level ESL.
Course exempt from repeat provisions

ESL-501 English as a Second Language: Lab Preparatory Level
0.0 Units / 1.5 - 3.0 hours LAB
Noncredit Course
This course will offer support for English as a Second Language (ESL) students in reading, writing, listening, and speaking through supplementary instruction and supervised practice.
Course exempt from repeat provisions
ESL-503A English as a Second Language: Oral Communication Skills A  
0.0 Units / 1.0 hours LEC  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will be a beginning level oral communication course designed to improve listening and speaking skills needed for successful interaction in workplace, academic, and social environments. 
Course exempt from repeat provisions

ESL-503B English as a Second Language: Oral Communication Skills B  
0.0 Units / 2.0 hours LEC  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will promote the development of beginning to intermediate oral communication skills. This course is designed to improve listening and speaking skills needed for successful interaction in workplace, academic and social environments. 
Course exempt from repeat provisions

ESL-503C English as a Second Language: Oral Communication Skills C  
0.0 Units / 3.0 hours LEC  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will be an intermediate level oral communication course designed to improve listening and speaking skills needed for successful interaction in workplace, academic, and social environments. 
Course exempt from repeat provisions

ESL-507 English as a Second Language: Beginning  
0.0 Units / 5.0 hours LEC  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will promote the development of beginning grammar skills in context, with authentic language production in the four skills areas: reading, writing, listening, and speaking. Students will expand vocabulary and oral proficiency and develop competency in sentence level syntax and longer written assignments. ESL 507 will cover the topics necessary to complete beginning level ESL. 
Course exempt from repeat provisions

ESL-509 English as a Second Language: Intermediate  
0.0 Units / 5.0 hours LEC  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will develop skills in reading, writing and speaking which will help to prepare students for college-level work in English. Students will continue to develop competency in sentence organization, paragraph writing and the development of longer pieces of writing. Students will improve their confidence in speaking English in academic and other settings. This course will cover the grammar topics necessary to complete the Intermediate level of ESL. 
Course exempt from repeat provisions

ESL-511 English as a Second Language: Advanced  
0.0 Units / 5.0 hours LEC  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will develop communicative competence in advanced grammar topics in the context of a variety of writing forms, reading comprehension and speaking, which are necessary for college work in English. Students will improve vocabulary and the ability to use English in the classroom and in other situations. ESL 511 will cover the topics necessary to complete the advanced of level ESL. 
Course exempt from repeat provisions
ESL-513 Bridge to English 200
*0.0 Units / 5.0 hours LEC*

**Noncredit course for Pass/No Pass or Satisfactory Progress**
This ESL course will prepare multilingual students for ENG 200 coursework. This course focuses on engaged reading, critical thinking, and writing skills through participation in the academic writing process that results in producing both short and full-length essays. The focus will be on common challenges and themes with particular relevance for multilingual writers, including 2nd language acquisition and the brain, language and society, and grammatical error patterns which may interfere with meaning.

Course exempt from repeat provisions
Advisory: This course is designed for ESL program certificate holders, high school graduates with fewer than four years of high school completed in the U.S., students who still need language development support and/or have limited/interrupted formal education in U.S. and/or birth countries, international students, and other Generation 1.5 students.

**ETHNIC STUDIES**

**ETH-202 Racial and Ethnic Relations**
CSU (D0, D3, F), UC, IGETC (4C, 4J), MC (B2, Culture)
*3.0 Units / 3.0 hours LEC*

**Credit course for grade or Pass/No Pass**
This course will analyze historical experiences and relations among various racial, religious, national, and gender groups as they interact with racism, ethnocentrism, and class in the U.S. and the world. It will also examine social justice movements in relation to ethnic and racial groups in the United States to provide a basis for a better understanding of the socio-economic, cultural and political conditions among key social groups. Successful students will be able to analyze racial and ethnic relations using theories, literature, and current events. (C-ID SOCI 150, SJS 110)

Recommended Preparation: ENG 200

**ETH-235 Mexican American Culture**
CSU (C2, D0, D3, F), UC, IGETC (4C, 4J), MC (B2, C, Culture)
*3.0 Units / 3.0 hours LEC*

**Credit course for grade or Pass/No Pass**
This course will examine how the Mexican American identity was created beginning with the colonization of Mexico by the Spanish, through the Mexican American War, up to the present. Also examined will be the role of race in forming the stereotypes and discrimination of Mexican Americans within the United States, the cultural contributions of the Mexican Americans to the United States, and the importance of art, music, dance, religion, food, family, government within the Mexican American community.

**ETH-241 Pacific Coast Indian Cultures**
CSU (C2, D0), UC, IGETC (4J), MC (B2, C, Culture)
*3.0 Units / 3.0 hours LEC*

**Credit course for grade or Pass/No Pass**
This course will introduce students to the cultural, historical, political, environmental, and educational perspectives of Native American life in California. Students will gain understanding of the material and non-material cultures of Native Americans, the relationship between California tribes and the environment and geography of California, and the contemporary problems facing California Indians.

Recommended Preparation: ENG 200

**FIRE SCIENCE**

**FSC-50A Instructor 1: Instructional Methodology**
*2.5 Units / 2.5 hours LEC*

**Credit course for grade or Pass/No Pass**
This course will provide the skills and knowledge needed for entry level professional instructor to perform their duties safely, effectively and competently. The curriculum is based on the 2012 edition of the National Fire Protection Agency (NFPA) 1041 standard. At the end of this course students will be prepared to instruct from standard lesson plans.

**FSC-50B Training Instructor 1B - Psychomotor Lesson Delivery**
*2.5 Units / 2.5 hours LEC*

**Credit course for grade or Pass/No Pass**
This course will continue the teaching techniques used in vocational education to select, develop, organize, and utilize instructional materials appropriate for teaching technical lessons.

Prerequisite: FSC 50A, with a minimum grade of C, or CFSTES Training Instructor 1A Certification
FSC-65 Incident Command System (ICS) 300
1.5 Units / 1.5 hours LEC
Credit course for grade or Pass/No Pass
This course will cover Incident Command System (ICS) 300 standards developed by the National Wildfire Coordinating Group (NWCG) to coordinate programs and activities of wildfire management agencies participating in major wildland fires. The course represents modules 7 through 11 of the Incident Command System National Training Curriculum, and includes ICS organization and staffing, organizing for incidents, incident resource management, air operations, and incident planning.
Limitation on Enrollments: Must show proof of ICS 100, ICS 200 and ICS 700

FSC-68 Basic Firefighting Academy
9.0 Units / 7.5 hours LEC; 5.4 hours LAB
Credit course for grade or Pass/No Pass
This course will offer basic, entry-level structure and wildland firefighting training for individuals who are seeking a career with state, federal and local fire departments. Upon successful completion of the course students will receive a Cal Fire Basic Firefighter Certificate.
Limitation on Enrollment: FSC 115 or CSTI Hazmat FRO Certification and Confined Space Awareness and Emergency Medical Responder or Emergency Medical Technician certification and medical clearance within one-year of the start of the program and must attend mandatory orientation

FSC-70A Company Officer 2A: Human Resources Management for Company Officers
2.5 Units / 2.5 hours LEC
Credit course for grade or Pass/No Pass
This course will provide information on the use of human resources to accomplish assignments, evaluating member performance, supervising personnel, and integrating health and safety plans, policies, and procedures into daily activities as well as the emergency scene.

FSC-70B Company Officer 2B: General Administrative Functions
1.5 Units / 1.5 hours LEC
Credit course for grade or Pass/No Pass
This course will provide information on general administrative functions and the implementation of department policies and procedures and addresses conveying the fire department’s role, image, and mission to the public.

FSC-70C Company Officer 2C: Fire Inspections & Investigation
2.5 Units / 2.5 hours LEC
Credit course for grade or Pass/No Pass
This course will provide information on conducting inspections, identifying hazards and addressing violations, performing a fire investigation to determine preliminary cause and securing the incident scene and preserving evidence.

FSC-70D Company Officer 2D: All-Risk Command Operations
2.5 Units / 2.5 hours LEC
Credit course for grade or Pass/No Pass
This course provides information on conducting incident size-up, developing and implementing an initial plan of action involving single and multiunit operations for various types of emergency incidents to mitigate the situation following agency safety procedures, conducting pre-incident planning, and develop and conduct a post-incident analysis.
Prerequisite: Meets the educational requirements of Fire Fighter II, ICS-200B: Incident Command System for Single Resources and Initial Action Incidents, and Hazardous Material Incident Commander (as offered by the California Specialized Training Institute)

FSC-70E Company Officer 2E: Wildland Incident Operations for Company Officers
2.5 Units / 2.5 hours LEC
Credit course for grade or Pass/No Pass
This course will provide information on evaluating and reporting incident conditions, analyzing incident needs, developing and implementing a plan of action to deploy incident resources completing all operations to suppress a wildland fire, establishing an incident command post, creating an incident action plan, and completing incident records and reports.
Prerequisite: Meets the educational requirements of Fire Fighter I, All Risk Command Operations for Company Officers, and S-290 Intermediate Fire Behavior (classroom delivery only)
FSC-80 Low Angle Rope Rescue Operational  
0.5 Units / 0.5 hours LEC; 1.0 hours LAB  
Credit course for Pass/No Pass only  
This course will provide training for responders in low angle rope rescue operations. These over-the-side operations may be the result of a vehicle accident, hiking mishap, swift water rescue, or search and rescue function in an urban or remote area. This course will also provide training in a subject element required for the California Urban Search and Rescue (US&R) Basic and Light Operational Level by serving as the prerequisite to continue your training in a Rescue Systems 1 course. Rescue Systems 1 prepares you for light-frame building collapse incidents caused by earthquake, terrorist actions, weapons of mass destruction (WMD) event, or other catastrophe. The Low Angle Rope Rescue Operational course is a 24-hour course taught in a three-day format. Students will be grouped by squad, team, company, or other similar configuration.

FSC-81 Surf Rescue Operations  
1.0 Units / 0.5 hours LEC; 2.0 hours LAB  
Credit course for Pass/No Pass only  
This course will prepare students to be able to perform rescue operations in the ocean setting. Successful completion of the course will result in a State Fire Training surf rescue operation certificate.

Advisory: Ability to swim 500 yards in 12 minutes in the ocean.

FSC-90 Fire Fighter Academy I  
13.0 Units / 8.0 hours LEC; 16.0 hours LAB  
Credit course for grade of Pass/No Pass  
This course will give students the skills and knowledge for the entry level professional firefighter to perform their duties safely, effectively and competently. This course combined with Emergency Medical Technician (EMS 135), meets the educational requirements for Firefighter I certification as established by the State Board of Fire Services. This course also includes two overnight sessions. Upon successful completion of the wildland component, students also receive a CAL FIRE Basic Firefighter Certificate.

Limitation on Enrollment: A Fire Program Medical Clearance within one year of enrollment and Emergency Medical Responder or Emergency Medical Technician certification.

FSC-111 Fire Protection Organization  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
The course will provide an introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services.

FSC-112 Fire Behavior & Combustion  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover the theory and fundamentals of how and why fires start, spread, and are controlled. It will include an in-depth study of fire chemistry, fire characteristics of materials, extinguishing and fire control techniques. (C-ID FIRE 140 X)

FSC-113 Fire Protection Equipment & Systems  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover the function and operation of portable fire extinguishing equipment; protection systems for special hazards; sprinkler systems, fire detection, and alarm systems.

FSC-114 Building Construction for Fire Safety  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will study of the components of building construction that relate to fire safety. The elements of construction and design of structures that are key factors when inspecting buildings, preplanning fire operations, and operating at fires will be covered in the course. The course will also review the development and evolution of building and fire codes, and studies in relationship to past fires in residential, commercial, and industrial occupancies.
FSC-115 Hazardous Materials Response for Public Safety

3.0 Units / 3.0 hours LEC

Credit course for grade or Pass/No Pass

This course will provide a comprehensive study of Hazardous Materials and emergency response to Hazmat incidents. Topics will include basic Hazmat chemistry, regulation, toxicology, tactics and strategy of mitigation, decontamination, and scene management.

GEOGRAPHY

GEO-201 Cultural Geography

3.0 Units / 3.0 hours LEC

Credit course for grade or Pass/No Pass

This course will focus on the natural patterns of the earth and the human perception of the environment as a key to understanding regional cultural differences. Field trips to local cultural areas may be assigned. This course is recommended for those interested in elementary teaching, ecology, and the social sciences. (C-ID GEOG 120)

GEO-202 World Regional Geography

3.0 Units / 3.0 hours LEC

Credit course for grade or Pass/No Pass

This course will explore the global patterns of the human habitat. The student will examine natural processes, such as geology, meteorology, and geographic location, and their influences on patterns of population, land use, history, religion/ideology, human well-being, and environmental concerns. The student will gain an appreciation of the diversity of world regional cultures and the interaction of people and their environment. (C-ID GEOG 125)

Recommended Preparation: ENG 200

GEO-206 Physical Geography

4.0 Units / 3.0 hours LEC; 3.0 hours LAB

Credit course for grade or Pass/No Pass

This course will offer a concise study of the natural environment, including topics in weather, landform study, and the water cycle. Emphasis is on the interrelated aspects of natural systems within the atmosphere, lithosphere and hydrosphere, and on the characterization of the environment through map interpretation. (C-ID GEOG 115, GEOG 121)

Recommended Preparation: ENG 200

GEOLOGY

GEL-201 Geology

3.0 Units / 3.0 hours LEC

Credit course for grade or Pass/No Pass

This course will introduce modern geologic principles and use those as a framework for understanding the processes involved in the crystallizing of minerals, the formation and deformation of rocks, the creation of geologic resources, and the history of the ever-changing surface of the Earth. Students needing an associated physical science laboratory should sign up for GEL 201L along with this course. (C-ID GEOL 100)

Recommended Preparation: ENG 200

GEL-201L Geology Laboratory

1.0 Units / 3.0 hours LAB

Credit course for grade or Pass/No Pass

This course will give students a chance for hands-on study of key geologic principles. Topics include plate tectonics, rock and mineral sample identification, geologic map analysis, and field investigations. (C-ID GEOL 100L, GEOL 101)

Prerequisite: GEL 201 with a minimum grade of C

Corequisite: GEL 201

GEL-203 Earth History

3.0 Units / 3.0 hours LEC

Credit course for grade or Pass/No Pass

This course will introduce students to modern geologic principles and use those as a framework for understanding the processes involved in shaping the earth through time, including the creation of the fossil record and the formation and deformation of rocks. Students needing an associated physical science laboratory should sign up for GEL 203L along with this course. (C-ID GEOL 110)

Recommended Preparation: ENG 200
GEL-203L Earth History Laboratory
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce the world of fossils and rocks and what they tell us about the history of the Earth. Using modern geologic principles, the Earth and its ancient history can be understood for a better appreciation of the solid Earth and the world around you. Required field trips may be scheduled. (C-ID GEOL 110L, GEOL 111)
Prerequisite: GEL 203 with a minimum grade of C
Corequisite: GEL 203

HEALTH
HLH-50 Community CPR and First Aid
0.5 Units / 0.25 hours LEC; 0.75 hours LAB
Credit course for grade or Pass/No Pass
This course will provide instruction on the knowledge and skills necessary to perform Adult, Child, and Infant cardiopulmonary resuscitation (CPR). Additional training will include use of an automated external defibrillator (AED) and, basic first aid as the first link in the Emergency Medical Services (EMS) system. Methods of instruction will coordinate lecture with hands-on skill demonstration and practice of CPR and first aid techniques. Satisfactory completion of the course will entitle the student to certifications in Community CPR (valid for 2 years) and Basic First Aid (valid for 3 years).

HLH-103 Women's Health
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will address women's health from a biological, psychological, and sociological perspective. Topics include: Women as Health Consumers; Reproductive Health; Self-Image and Health; Women and Nutrition. Appropriate for the general public, as well as health care and human service providers.

HLH-104 Medical Terminology
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will introduce the student to the fundamentals of medical word building as well as terms related to specific body systems. Emphasis is placed upon pronunciation and spelling as well as anatomical, pathological, surgical, and diagnostic terminology. This course is designed for pre-nursing students, EMTs, health care clerical support staff, nursing assistants, and others in the health related professions. (C-ID HIT-103 X)

HLH-199 Independent Study
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB
Credit course for grade or Pass/No Pass
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

HLH-200 Health Education
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will study lifelong human health and explore the relationships between the psychological, sociological, biological, legal, and moral/ethical dimensions leading to optimal health and wellness. Topics include nutrition, physical fitness, substance abuse, reproductive health, infectious and non-infectious diseases; aging, dying and death; injury prevention; environmental, and consumer health.
Recommended Preparation: ENG 200
COURSES

HLH-213 Lifeguard Training  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will use an American Red Cross certified program to provide entry-level lifeguard candidates with the knowledge and skills to prevent, recognize, and respond to emergencies and to provide care for injuries and sudden illnesses until advanced medical personnel arrive and take over. Students will be required to pass an assessment of their swimming skills in order to receive Lifeguarding certification. This course meets all California state law requirements for lifeguard certification.

HLH-214 Foods and Nutrition  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will introduce the field of foods and nutrition and their relationship to good health. This course will also establish a foundation in nutritional science and provide students interested in medicine or biochemistry with the knowledge and skill for further studies. (C-ID NUTR 110 when HLH 215 is also completed)

HLH-215 Therapeutic Nutrition  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will present a survey of current research and the practical application of the principles of therapeutic nutrition to the hospitalized patient. Emphasis is placed on the role of nutrition in the prevention of illness and disease. (C-ID NUTR 110 when HLH 214 is also completed)

HISTORY

HST-188.5 Local Native History  
1.0 Units / 1.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will provide a brief overview of the history of the tribes of Mendocino and Lake Counties from pre-Columbian to current times. Students will gain an understanding of the myriad forces that have shaped local culture and political organization.

HST-199 Independent Study  
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.  
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

HST-200 History of Western Civilization I  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course examines the Middle East, North Africa, and Europe from 10,000 B.C. to 1648 A.D. Includes a survey of ancient civilizations, medieval Europe and the rise of nation states. Various aspects of Western Civilization will be examined, among them are political institutions, religious beliefs, economic institutions, culture, and society. (C-ID HIST 170)  
Recommended Preparation: ENG 200

HST-201 History of Western Civilization II  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover Europe and the New World from 1648 A.D. to the present. Includes a survey of the development of modern nations, the industrial revolution, the French revolution, the urban revolution and the social upheavals of the 19th and 20th centuries. (C-ID HIST 180)  
Recommended Preparation: ENG 200
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Requirements</th>
<th>Course Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>HST-202</td>
<td>The United States to 1877</td>
<td>3.0</td>
<td>CSU (C2, D6), UC, IGETC (3B, 4F), MC (B1, B2, C)</td>
<td>Credit course for grade or Pass/No Pass</td>
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<tr>
<td></td>
<td>This course will introduce the student to major political, social, and cultural developments of the US from the pre-colonial era through Reconstruction. This course includes the perspectives and contributions of diverse groups of Americans. (C-ID HIST 130)</td>
<td></td>
<td>Recommended Preparation: ENG 200</td>
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<tr>
<td>HST-203</td>
<td>The United States Since 1865</td>
<td>3.0</td>
<td>CSU (C2, D6), UC, IGETC (3B, 4F), MC (B1, B2, C)</td>
<td>Credit course for grade or Pass/No Pass</td>
</tr>
<tr>
<td></td>
<td>This course will introduce the student to major political, social and cultural developments of the US from the Reconstruction era through the present day. This course includes the perspectives and contributions of diverse groups of Americans. (C-ID HIST 140)</td>
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<td>Recommended Preparation: ENG 200</td>
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<tr>
<td>HST-205</td>
<td>World History to 1500</td>
<td>3.0</td>
<td>CSU (C2, D6), UC, IGETC (3B, 4F), MC (B2, C, Culture)</td>
<td>Credit course for grade or Pass/No Pass</td>
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<td></td>
<td>This course will introduce students to the early, classical and medieval civilizations that have most influenced the modern world. Topics will include the development of European, American and African civilizations; the Eastern traditions of India, China, and Japan; and the worlds of Judaism, Christianity and Islam. Students will gain an understanding of how the connections between East and West have shaped the world today. (C-ID HIST 150)</td>
<td></td>
<td>Recommended Preparation: ENG 200</td>
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<tr>
<td>HST-206</td>
<td>World History Since 1500</td>
<td>3.0</td>
<td>CSU (C2, D6), UC, IGETC (3B, 4F), MC (B2, C, Culture)</td>
<td>Credit course for grade or Pass/No Pass</td>
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<tr>
<td></td>
<td>This course will introduce students to modern and contemporary history from 1500 to the present. Topics to be covered include the impact of Western expansion on the Americas, Africa and Asia; the reaction of non-western people to Western expansion; the growth of nationalism; the industrial revolution; and the World Wars of the 20th century. Students will gain an understanding of the interconnectedness of historical events. (C-ID HIST 160)</td>
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<td>Recommended Preparation: ENG 200</td>
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<tr>
<td>HST-207</td>
<td>Mexican American History</td>
<td>3.0</td>
<td>CSU (C2, D6), UC, IGETC (3B, 4C, 4F), MC (B1, B2, C, Culture)</td>
<td>Credit course for grade or Pass/No Pass</td>
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<td>This course will examine the development of diverse Mexican American communities throughout the US. Topics will include how Mexican American men and women have struggled for economic, political, and social equality in their local communities, as well on the national scene. Students can expect to learn about the aftermath of the Mexican American war, ongoing immigration and its effect on receiving communities; changing gender roles; tension between assimilation and maintenance of an ethnic identity; and the development of civil rights organizations. Special emphasis will be given to the history of labor and its impact on the development of the Mexican American community.</td>
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<td>Recommended Preparation: ENG 200</td>
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<tr>
<td>HST-208</td>
<td>Women in American History</td>
<td>3.0</td>
<td>CSU (C2, D4, D6), UC, IGETC (3B, 4D, 4F), MC (B1, B2, C, Culture)</td>
<td>Credit course for grade or Pass/No Pass</td>
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<td>This course will introduce the student to major political, social and cultural developments of US history from the perspective of American women. Topics will include the roles and status of women of different races and classes from colonial times through the current day. Special attention will be given to women's political struggles for equality. (C-ID SJS 120)</td>
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<td>Recommended Preparation: ENG 200</td>
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<tr>
<td>HST-209</td>
<td>African American History</td>
<td>3.0</td>
<td>CSU (C2, D3, D6), UC, IGETC (3B, 4C, 4F), MC (B1, B2, C, Culture)</td>
<td>Credit course for letter grade only</td>
</tr>
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<td>This course will examine the African American experience from its 17th century African origins to the current day. Topics will include African civilizations, slavery, emancipation, legal and extra-legal discrimination, migration, cultural production, civil rights movements, and black contributions to US policy and economy.</td>
<td></td>
<td>Recommended Preparation: ENG 200</td>
<td></td>
</tr>
</tbody>
</table>
HST-220 Mexican History
CSU (C2, D6), UC, IGETC (3B, 4F),
3.0 Units / 3.0 hours LEC
MC (B2, C, Culture)
*Credit course for grade or Pass / No Pass*
This course will survey the history of Mexico from the pre-Columbian period through the present day. It will include political, social, and cultural history and will combine lecture with class discussion.
Recommended Preparation: ENG 200

HST-221 California History
CSU (C2, D6), UC, IGETC (3B, 4),
3.0 Units / 3.0 hours LEC
MC (B2, C)
*Credit course for grade or Pass / No Pass*
This course will survey California history from the first peoples to inhabit this region through the present. This course explores the ways that the intersection of politics, the economy, society, culture, and geography has contributed to the formation for contemporary California. Special emphasis is given to the state's diversity.
Recommended Preparation: ENG 200

HST-222 Native American History
CSU (C2, D3, D6), UC, IGETC (3B, 4C, 4F),
3.0 Units / 3.0 hours LEC
MC (B1, B2, C, Culture)
*Credit course for grade or Pass / No Pass*
This course will examine Native American history from pre-Columbian times through the present using tribal histories to illustrate broad historical dynamics and the interplay between politics, law, culture, philosophies, and religions of First Nation people and those of foreigners.
Recommended Preparation: ENG 200

HST-250 Contemporary America: The People and the Issues
CSU (C2, D6), UC, IGETC (3B, 4F),
3.0 Units / 3.0 hours LEC
MC (B1, B2, C)
*Credit course for grade or Pass / No Pass*
This course will investigate how critical issues of US history have shaped Contemporary America. Topics to be studied include rugged individualism, America's history as a world power, the labor movement, citizen participation and civil rights. Each topic is presented in its historical context.
Recommended Preparation: ENG 200

HUMAN SERVICES

HUS-101 Introduction to the Helping Professions
CSU
3.0 Units / 3.0 hours LEC
*Credit course for grade or Pass / No Pass*
This course will provide students with an overview of major human service delivery models and occupations. Students will examine the core skills and intervention techniques used in human services, as well as ethical and legal considerations when providing human services. This course is useful for those who wish to continue their studies in social work, mental health, counseling, and other human service professions.
Recommended Preparation: ENG 200

HUS-103 Field Placement and Practicum Seminar
CSU
1.5 Units / 1.5 hours LEC
*Credit course for grade or Pass / No Pass*
This course will provide students with classroom instruction supporting a supervised field experience. Students will develop their interpersonal and professional communication and problem solving skills as they integrate knowledge and skills developed in the Human Service Worker Program.
Corequisite: HUS 197A

HUS-152 Basic Skills for Human Service Workers
CSU
3.0 Units / 3.0 hours LEC
*Credit course for grade or Pass / No Pass*
This course will introduce students to the basic counseling knowledge and skills necessary for effective helping relationships in human service settings. This course is also useful for parents, teachers, tutors, medical personnel, correctional personnel, or anyone interested in becoming an effective helper.
Recommended Preparation: COM 210 and ENG 200
HUS-154 Fundamentals of Interviewing and Counseling  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will provide students with a non-authoritarian approach to motivating individuals to overcome ambivalence towards change, and to engage in healthy, pro-social lifestyles. This course reviews the conceptual and research background from which motivational enhancement therapy was derived, and provides a practical introduction to the approach at a level appropriate for entry-level counselors.  
Recommended Preparation: HUS 152 and ENG 200

HUS-155 Group Leadership and Group Process  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will cover the dynamics of therapeutic groups as a means of motivating positive behavioral changes. Course content includes: types and purposes of groups; group rules, roles and norms; group development from formation to closure; and specific facilitator techniques and strategies for ensuring successful group outcomes. The knowledge and skills acquired from the course will help students prepare for diverse human services occupations and can be applied to a wide variety of service settings.  
Recommended preparation: HUS 152, HUS 154, with a minimum grade of C, and ENG 200

HUS-156 Case Management and Documentation  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will provide students with an overview of case management and documentation techniques used by human service providers. Topics include: intake interviewing; assessment; orientation procedures; referral and follow-up; various methods of planning for treatment, relapse prevention, and aftercare activities. Emphasis is placed on the skills of observation and recording, and both written and oral communication. The knowledge and skills acquired from the course will help students prepare for diverse human services occupations and can be applied to a wide variety of service settings.  
Recommended Preparation: ENG 200

HUS-157 Co-Occurring Disorders and Mental Health Issues  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will provide students with a fundamental understanding of the unique characteristics and treatment needs of people with co-occurring substance use disorders and mental illness. It examines the way in which the mental health systems, substance abuse treatment programs, and self-help groups work together to address the needs of clients with these co-occurring disorders.  
Recommended Preparation: AOD 151, HUS 152, HUS 154, with a minimum grade of C and ENG 200

HUS-159 Intervention Theory and Techniques  
2.0 Units / 1.5 hours LEC; 1.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will provide an overview of the theories and practice of brief interventions appropriate for paraprofessional counseling. The course will blend motivational strategies with various brief intervention approaches used to address ambivalence and resistance to treatment and to support achievement of treatment goals.  
Recommended Preparation: HUS 152, HUS 154, with a minimum grade of C and ENG 200

HUS-160 Law, Ethics and Human Services  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will introduce students to professional ethics, laws and regulations, and provide an overview of the civil/criminal justice system as related to human services. A focus will be on the needs of paraprofessional counselors and human service workers.  
Recommended Preparation: ENG 200

HUS-161 Introduction to Family Counseling Approaches  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will introduce students to methods used by human services paraprofessionals to assist families with a variety of psychosocial issues. Students will analyze the dynamics of problematic family relationships and will develop practical counseling strategies in an experiential class setting.  
Recommended Preparation: HUS 154 and ENG 200
COURSES

HUS-162 Community Prevention Theory and Practice          CSU
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will cover theories and practices related to the prevention of harmful attitudes and behaviors and the promotion of healthy ones at the community level. Risk and protective factors, science-based prevention strategies and model programs will be explored.
Recommended Preparation: ENG 200

HUS-163 Professional Competency and Growth          CSU
2.0 Units / 2.0 hours LEC
Credit course for grade or Pass/No Pass
This course will examine the importance of self-care in human service professions. Strategies for personal and professional growth will be investigated. Early warning signs and techniques for avoiding stress, burn-out, and unhealthy relationship patterns in the work environment will be emphasized.
Recommended Preparation: ENG 200

HUS-170 Introduction to Social Work           CSU, MC (B2)
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will provide an overview of the profession of Social Work and the roles and responsibilities of the Social Worker. Course content addresses theoretical perspectives for social workers; social justice and social welfare policy; and social work concepts and practices as applied to diverse settings and groups, including: family and children; mental health; healthcare; schools; older adults; people with disabilities, the criminal justice system, etc.
Recommended Preparation: ENG 200

HUS-171 Working with Transition Age Youth          CSU
2.0 Units / 2.0 hours LEC
Credit course for grade or Pass/No Pass
This course will provide an overview of characteristics and developmental issues related to transition age youth (youth ages 14-25). Students will learn culturally competent engagement strategies for addressing behavioral health problems experienced by TAY, as well as how to respond appropriately to the ethical challenges common to working with this age group in behavioral health settings.
Recommended Preparation: ENG 200

HUS-172 Working in Tribal Communities           CSU, MC (Culture)
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
The course will provide an overview of tribal human services in Lake and Mendocino Counties within the context of the unique history and current cultural and socioeconomic factors affecting Native Americans. The impacts of historical trauma on the development and implementation of trauma-informed Human Services in tribal communities will be addressed. Students will analyze their assumptions, beliefs and personal feelings related to working with Tribal governments, services, programs and tribal members, especially with regards to collaboration.
Recommended Preparation: ENG 200 and HUS 101 or HLIS 170 with a minimum grade of C

HUS-173 Mindfulness Practice in Human Services          CSU
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will provide students with an understanding of and ability to practice and teach Mindfulness. "Mindfulness" is the ability to be attentive in the moment and open to nuance and new information, while suspending preconceptions and judgment. It is a key skill in the repertoire of all counseling relationships. Students will explore theoretical concepts, and learn to apply Mindfulness to their personal and professional lives. Students will discover how this awareness can help their clients reduce stress and pain, arrest addictive behavior, enhance productivity, become more creative, and develop more meaningful relationships. Emphasis will be placed on Mindfulness as an integral part of behavioral health.
Recommended Preparation: HUS 152 or PSY 215 with a minimum grade of C
HUS-197A Human Service Worker Practicum  
2.0 - 8.0 Units / Credit course for letter grade only  
This course will provide students in the Human Service program the opportunity to apply knowledge, skills and  
attitudes learned in the classroom in a real human services workplace, while developing new job-specific knowledge  
and skills. This course will help students better understand human services as an occupation, and to gauge their  
interest and compatibility with a human services career.  
Prerequisite: HUS 101 or HUS 170 and HUS 152 and HUS 156 with a minimum grade of C  
Corequisite: HUS 103 and HUS 154

HUS-501 Working in Tribal Communities  
0.0 Units / 3.0 hours LEC  
Noncredit Course  
The course will provide an overview of tribal human services in Lake and Mendocino Counties within the context of  
the unique history and current cultural and socioeconomic factors affecting Native Americans. The impacts of  
historical trauma on the development and implementation of trauma-informed Human Services in tribal  
communities will be addressed. Students will analyze their assumptions, beliefs and personal feelings related to  
working with Tribal governments, services, programs and tribal members, especially with regards to collaboration.  
Recommended Preparation: ENG 200 and HUS 101 or HUS 170 with a minimum grade of C  
Course exempt from repeat provisions

ITALIAN

ITA-100 Conversational Italian: Level I  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will begin the development of practical Italian language skills with the emphasis on speaking and  
listening. Students will interact with authentic language in a cultural context. Course may not meet major  
requirements at transfer institutions. See your counselor for more information.

ITA-101 Conversational Italian: Level II  
2.0 Units / 2.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will continue the development of practical Italian language skills with emphasis on speaking and  
listening. Students will interact with authentic language in a cultural context. Course may not meet major  
requirements at transfer institutions. See your counselor for more information.  
Recommended Preparation: ITA 100

ITA-200 Elementary Italian: Level I  
4.0 Units / 4.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will present an introduction to Italian language and culture. It is designed to develop listening, speaking,  
reading, and writing skills. Students will interact with authentic language within the context of Italian culture and  
history.

ITA-201 Elementary Italian: Level II  
4.0 Units / 4.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will continue the development of elementary speaking, listening, reading, and writing skills in Italian.  
Students will continue to interact with authentic language within the context of Italian culture and history.  
Prerequisite: ITA 200, with a minimum grade of C, or two years of high school Italian

KINESIOLOGY

KIN-100 Introduction to Physical Therapy  
1.0 Units / 1.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will introduce students to careers related to the field of physical therapy. It will outline job descriptions,  
educational background, labor market and practice settings for the different jobs related to physical therapy.
KIN-109 Fitness Instructor Training  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will include an in depth investigation into the skills and techniques necessary to design, implement and oversee exercise prescription and programs for individuals at various levels of fitness.

KIN-200 Introduction to Kinesiology  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will introduce the historical, philosophical, sociological, psychological, and scientific foundations of the Kinesiology field. The course will also include an overview of careers, fields of study and requirements in Kinesiology and allied health disciplines. Issues, challenges, and current/future trends will also be addressed. (C-ID KIN 100)

KIN-214 Introduction to Sport Related Injuries  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will cover the introductory theories and principles associated with the prevention and care of sport related injuries. Topics include first aid, treatment and prevention of sport related injuries including therapeutic techniques, rehabilitation modalities, taping and nutrition. Legal and ethical issues, professionalism, organization and administrations of a sports medicine facility will also be included.

LEARNING SKILLS

LRS-23 Learning Skills Laboratory  
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB  
Credit course taken for Pass/No Pass only  
This course will provide support for students with identified learning disabilities in completing assignments and accessing information from other college courses. Students will be able to identify and understand their learning disability and the appropriate accommodations needed in class for success. Students will be provided the opportunity to learn and adopt successful learning and study strategies to be successful in college level course work and to transfer skills to the work environment. Students will have the opportunity to learn and apply assistive technology and adaptive computer strategies in college courses. This is not a tutorial program.  
Limitation on Enrollment: Requires instructor signature - student must be enrolled in a course in which the strategies can be applied. Eligible students may enroll a maximum of 4 times.

LRS-500 Academics for Adult Learners with Disabilities  
0.0 Units / 1.0 hours LEC; 3.0 hours LAB  
Noncredit Course  
This course will combine lecture and small group instruction with self-paced practice to encourage adult learners with disabilities to reach their educational and employment goals. Learning has no limits. Improving basic education and literacy skills can be the key to long-term self-sufficiency. Become more successful in college coursework or in the job market by increasing skills in reading, writing, mathematics, and communication. This course is designed for adult learners with disabilities.  
Course exempt from repeat provisions

LRS-523 Basic Learning Skills Laboratory  
0.0 Units / 1.5 - 3.0 hours LAB  
Noncredit Course  
This course will provide support for students with identified learning disabilities in completing assignments and accessing information from any college course. Students will be able to identify and understand their learning disability and the appropriate accommodations needed in class for success. Students will be provided the opportunity to learn and adopt successful learning and study strategies to be successful in college level course work and to transfer skills to the work environment. Students will have the opportunity to learn and apply assistive technology and adaptive computer strategies in college courses. This is not a tutorial program.  
Limitation on Enrollment: Requires instructor signature - student must be enrolled in a course in which the strategies can be applied.  
Course exempt from repeat provisions
**COURSES**

**LRS-525** Cooking for Adult Learners with Disabilities

0.0 Units / 1.25 hours LEC

*Noncredit course for Pass/No Pass or Satisfactory Progress*

This course will assist students with intellectual disabilities to achieve greater independence at home. This course emphasizes practical cooking skills in relation to food preparation, kitchen hygiene and safety, cooking and storing food properly.

*Course exempt from repeat provisions*

**LRS-526** Nutrition for Adult Learners with Disabilities

0.0 Units / 1.25 hours LEC

*Noncredit course for Pass/No Pass or Satisfactory Progress*

This course will assist students with intellectual disabilities to achieve greater independence at home. This course emphasizes practical nutrition guidelines in relation to making healthy food choices, picking and following recipes, and planning for daily and weekly menus.

*Course exempt from repeat provisions*

**LRS-527** Consumer Skills for Adult Learners with Disabilities

0.0 Units / 1.25 hours LEC

*Noncredit course for Pass/No Pass or Satisfactory Progress*

This course will assist students with intellectual disabilities to achieve greater independence at home and within the community. This course emphasizes consumer skills in relation to budgeting, shopping and restaurant etiquette.

*Course exempt from repeat provisions*

**LRS-528** Social Skills for Adult Learners with Disabilities

0.0 Units / 1.25 hours LEC

*Noncredit course for Pass/No Pass or Satisfactory Progress*

This course will assist students with intellectual disabilities to achieve greater independence at home and within the community. This course emphasizes developing appropriate social skills in relation to school, work, and community interactions.

*Course exempt from repeat provisions*

**LRS-529** Self-Advocacy for Adult Learners with Disabilities

0.0 Units / 1.25 hours LEC

*Noncredit course for Pass/No Pass or Satisfactory Progress*

This course will assist students with intellectual disabilities to achieve greater independence at home and within the community. This course emphasizes developing appropriate skills needed to advocate for one's self including the ability to speak for themselves, make decisions about their lives, and practicing self-determination.

*Course is exempt from repeat provisions*

**LRS-530** Personal Relationships for Adult Learners with Disabilities

0.0 Units / 1.25 hours LEC

*Noncredit course for Pass/No Pass or Satisfactory Progress*

This course will assist students with intellectual disabilities to have a better understanding of personal relationships. This course emphasizes understanding hygiene, naming of feelings, different friendships and basics of dating.

*Course is exempt from repeat provisions*

**LRS-531** Basic Computer Skills

0.0 Units / 1.25 hours LEC

*Noncredit course for Pass/No Pass or Satisfactory Progress*

This course will assist students with intellectual disabilities to achieve greater independence while using the computer. This course emphasizes personal and job related skills.

*Course exempt from repeat provisions*

**LRS-532** Vocational Exploration

0.0 Units / 1.25 hours LEC

*Noncredit course for Pass/No Pass or Satisfactory Progress*

This course will assist students with intellectual disabilities to explore appropriate employment opportunities. This course provides supervised career exploration and guided support for career investigation. This course emphasizes employment analysis through exploring students' interests, abilities, and personality traits.

*Course exempt from repeat provisions*
LRS-533 Interview Skills
0.0 Units / 1.25 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will assist students with intellectual disabilities to prepare for a job interview. This course emphasizes interview preparedness, interview skills and what to do after an interview.
Course exempt from repeat provisions

LRS-534 Work Place Skills
0.0 Units / 1.25 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will assist students with intellectual disabilities to gain knowledge and to understand the skills needed in the work place. This course emphasizes work related skills including attitude, attire, ethics, and time management.
Course exempt from repeat provisions

LRS-535 Work-Related Communication Skills
0.0 Units / 1.25 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will assist students with intellectual disabilities to improve their communication skills in relationship to employment. This course emphasizes verbal communication and conflict resolution skills.
Course exempt from repeat provisions

LRS-536 Customer Service Skills
0.0 Units / 1.25 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will assist students with intellectual disabilities to approach customers with respect while using appropriate language and understanding. This course emphasizes customer service skills including attentiveness, communication and appropriate behavior.
Course exempt from repeat provisions

LIBRARY
LIB-200 Information and Research Competency
0.5 - 1.0 Units / 0.5 - 1.0 hours LEC
Credit course for grade or Pass / No Pass
This course will teach students to develop a process for dealing with the numerous information sources that barrage us in the 21st century so that information needs are met by learning to use print and electronic indexes, electronic databases, and the numerous resources inside the walls of libraries as well as over the Internet. This introductory course will teach the skills necessary to find, evaluate, use, and synthesize information for information needs within a college environment or the world of work.
Recommended Preparation: ENG 200

MATHEMATICS
MTH-30 Math Success
1.0 Units / 1.0 hours LEC
Credit course taken for Pass / No Pass only
This course will introduce students to the skills needed to be a successful math student at the college level. Topics include study skills, time management, note-taking, reading a math textbook, overcoming math anxiety, and other skills specific to the math curriculum. This course is designed to be taken in conjunction with any level of math course for the development of the student's skill set.
Corequisite: Enrollment in a math course

MTH-32 Just in Time Support for Statistics
2.0 Units / 2.0 hours LEC
Credit course for or Pass / No Pass only
This course will provide a just in time review of core prerequisite skills, competencies, and concepts needed for success in Statistics and is intended for students who are concurrently enrolled in MTH 220 - Statistics. Topics include computational skills traditionally developed in pre-algebra and algebra courses, and descriptive statistics that are needed to understand the basics of college-level statistics. This course is intended for students with little or no recent knowledge of algebra.
Corequisite: MTH 220
MTH-33 Support for Trigonometry
2.0 Units / 2.0 hours LEC
Credit course for or Pass/No Pass only
This course will cover topics from algebra that are essential to success in Trigonometry. It is designed for students who have not completed a course in Intermediate Algebra or the equivalent or those who feel they will need additional support in algebra to be successful in Trigonometry.
Corequisite: MTH 121

MTH-40A Mathematics Laboratory A
0.5 - 1.5 Units / 1.5 - 4.5 hours LAB
Credit course taken for Pass/No Pass only
This course will offer first semester math students the opportunity to develop competence in any current or future mathematics course through supervised practice and supplemental instruction.

MTH-40B Mathematics Laboratory B
0.5 - 1.5 Units / 1.5 - 4.5 hours LAB
Credit course taken for Pass/No Pass only
This course will offer second semester math students the opportunity to develop competence in any current or future mathematics course through supervised practice and supplemental instruction.

MTH-40C Mathematics Laboratory C
0.5 - 1.5 Units / 1.5 - 4.5 hours LAB
Credit course taken for Pass/No Pass only
This course will offer third semester math students the opportunity to develop competence in any current or future mathematics course through supervised practice and supplemental instruction.

MTH-40D Mathematics Laboratory D
0.5 - 1.5 Units / 1.5 - 4.5 hours LAB
Credit course taken for Pass/No Pass only
This course will offer fourth semester math students the opportunity to develop competence in any current or future mathematics course through supervised practice and supplemental instruction.

MTH-41A Mathematics Institute A
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course taken for Pass/No Pass only
This course will offer first semester Math Institute students the opportunity to develop competence for future mathematics courses through supervised practice and supplemental instruction.

MTH-41B Mathematics Institute B
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course taken for Pass/No Pass only
This course will offer second semester Math Institute students the opportunity to develop competence for future mathematics courses through supervised practice and supplemental instruction.

MTH-41C Mathematics Institute C
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course taken for Pass/No Pass only
This course will offer third semester Math Institute students the opportunity to develop competence for future mathematics courses through supervised practice and supplemental instruction.

MTH-46 Pre-College Mathematics
4.0 Units / 3.5 hours LEC; 1.5 LAB
Credit course for grade or Pass/No Pass
This course will cover arithmetic, formulas, percents, ratio and proportions and basic algebra concepts and techniques, such as the order of operations, signed numbers, variables, evaluating and simplifying algebraic expressions, solving linear equations, the number line, and the rectangular coordinate system.
COURSES

MTH-60 Beginning Algebra for STEM and Business Majors
4.0 Units / 3.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the topics of equations and inequalities in one variable, integer exponents, polynomials, equations and inequalities in two variables, rational expressions, radicals, quadratic equations, and the graphs of parabolas. The course is intended for students majoring in math, a science discipline, computer science, business or education. This course leads to MTH 79, MTH 80, or MTH 178.

MTH-77 Geometry
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will cover geometric concepts, deductive proof and logical arguments. Topics will include lines, angles, circles, triangles, similarity, congruence, coordinate geometry, volumes, and logic.
Prerequisite: MTH 60, with a minimum grade of C, one year of college-prep Algebra I or Integrated Math I and/or II or higher-level math class, with a minimum grade of C, taken within three years of enrollment, or qualification for MTH 77 through the assessment process.

MTH-79 Mathematics for Technical Fields
3.0 Units / 3.0 hours LEC
MC (D2)
Credit course for grade or Pass / No Pass
This course will introduce students to the computational skills needed in automotive, construction, welding, and drafting technologies, and other applied academic programs. Topics include geometry, measurement, number sense, estimation, basic statistics, trigonometric functions, and algebraic thinking.
Advisory: Foundational skills in arithmetic, ability to work with fractions and decimals.

MTH-80 Intermediate Algebra for STEM and Business Majors
5.0 Units / 5.0 hours LEC
MC (D2)
Credit course for grade or Pass / No Pass
This course will cover functions, equations and inequalities in one variable, systems of linear equations in three variables, rational, exponential and logarithmic functions and equations, and discrete topics. The course is intended for students majoring in math, a science discipline, computer science, business or education. Students who have not completed the prerequisite may enroll in MTH 80 if they concurrently enroll in MTH 30 and a Math Lab (MTH 40A, 40B, 40C, 40D, or 540).
Prerequisite: MTH 60, with a minimum grade of C, one year of college-prep Algebra II or a higher-level math class, with a minimum grade of C, taken within three years of enrollment, or qualification for MTH 80 through the placement process.

MTH-121 Trigonometry
4.0 Units / 4.0 hours LEC
MC (D2)
Credit course for grade or Pass / No Pass
This course will cover trigonometric functions, their inverses and their graphs, identities and proofs related to trigonometric expressions, trigonometric equations, solving right triangles, solving triangles using the Law of Cosines and the Law of Sines, polar coordinates, and introduction to vectors. (C-ID MATH 851)
Prerequisite: MTH 80, with a minimum grade of C, one year of college-prep Trigonometry or Pre-calculus or a higher-level math class, with a minimum grade of C, taken within three years of enrollment, or qualification for MTH 121 through the placement process.

MTH-170 Mathematics in Native American Cultures
3.0 Units / 3.0 hours LEC
MC (D2, Studies in Culture)
Credit course for grade or Pass / No Pass
This course will examine the mathematics of Native American cultures. Students will explore the use of mathematics in topics such as counting, measurement, beadwork, basketry, methods of record keeping, games, and contemporary issues facing Native American populations. The mathematics involved includes concepts such as number theory, bases, geometry, probability, and mathematical modeling. This course is recommended for liberal arts students, educators, and others who are interested in cultural studies.
Prerequisite: MTH 60 or MTH 79, with a minimum grade of C, or qualification for MTH 170 through the placement process, or Concurrent enrollment in MTH 540.
MTH-178 Applied Math  
4.0 Units / 4.0 hours LEC  
Credit course for grade or Pass/ No Pass  
This course will introduce students to mathematics as it applies to the individual and society. Topics include personal finance, statistics, voting, analysis of change, and mathematical applications to current social concerns. This general education mathematics course is designed to be an accessible college-level mathematics course for students majoring in the liberal arts. Students who have not completed the prerequisite may enroll in MTH 178 if they concurrently enroll in a Math Lab (MTH 40A, 40B, 40C, 40D, or 540).  
Prerequisite: MTH 60, with a minimum grade of C, MTH 79, with a minimum grade of C, one year of college-prep Algebra I with a minimum grade of C, one year of Integrated Math I with a minimum grade of C, or qualification for MTH 178 through the placement process.

MTH-200 Precalculus Mathematics  
5.0 Units / 5.0 hours LEC  
Credit course for letter grade only  
This course will cover polynomial, rational, exponential, logarithmic, radical, absolute value, and trigonometric functions and their graphs; analytic geometry, and polar coordinates. (C-ID MATH 155)  
Prerequisite: MTH 121, with a minimum grade of C, or qualification for MTH 200 through the placement process.

MTH-210 Calculus and Analytic Geometry I  
5.0 Units / 5.0 hours LEC  
Credit course for letter grade only  
This course will serve as a first course in differential and integral calculus of a single variable. Concepts will include: functions; limits and continuity; techniques and applications of both differentiation and integration; and the Fundamental Theorem of Calculus. The course is designed primarily for those majoring in Science, Technology, Engineering, and Math (STEM). (C-ID MATH 210)  
Prerequisite: MTH 200, with a minimum grade of C

MTH-211 Calculus and Analytic Geometry II  
5.0 Units / 5.0 hours LEC  
Credit course for letter grade only  
This course will cover integrals of transcendental functions, techniques of integration, improper integrals, parametric equations, polar coordinates, and infinite series. Applications covered will include areas between functions, volumes of revolution, work, centers of mass, hydrostatic force, arc length, surface area and approximations of functions using Taylor series. (C-ID MATH 220)  
Prerequisite: MTH 210 with a minimum grade of C

MTH-212 Calculus and Analytic Geometry III  
5.0 Units / 5.0 hours LEC  
Credit course for letter grade only  
This course will cover vectors and vector functions in two and three dimensions; surfaces in space; cylindrical and spherical coordinates; partial differentiation; multiple integration; Green’s, Stoke’s and Divergence Theorems. (C-ID MATH 230)  
Prerequisite: MTH 211 with a minimum grade of C

MTH-214 Linear Algebra  
4.0 Units / 4.0 hours LEC  
Credit course for letter grade only  
This course will include the theory of matrices, solutions of systems of linear equations, determinants, eigenvalues, eigenvectors, vector spaces, linear transformations, and applications. Math 214 is primarily for majors in mathematics, engineering, and computer science. Course provides students with useful tools for MTH 215. (C-ID MATH 250)  
Prerequisite: MTH 211 with a minimum grade of C
COURSES

MTH-215 Differential Equations
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will cover the theory and applications of ordinary differential equations. Students will be introduced to solution techniques for first- and second-order differential equations including power series, Laplace transforms, matrices, eigenvalues and eigenvectors, and numerical methods. This course is primarily for majors in mathematics and engineering. Use of graphing calculators will be essential for the course. (C-ID MATH 240)
Prerequisite: MTH 212 and MTH 214 with a minimum grade of C

MTH-220 Statistics
4.0 Units / 4.0 hours LEC
Credit course for letter grade only
This course will cover the use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications may include data from disciplines including business, social sciences, psychology, life science, health science, and education. Students who place into MTH 220 with required corequisite may enroll in MTH 220 if they concurrently enroll in MTH 32 or MTH 532. (C-ID MATH 110, SOCI 125)
Prerequisite: MTH 79, MTH 80, with a minimum grade of C, one year of college-prep Algebra II or a higher-level math class, with a minimum grade of C, taken within three years of enrollment, or qualification for MTH 220 through the placement process.

MTH-230 Calculus for Business and Economics
4.0 Units / 4.0 hours LEC
Credit course for letter grade only
This course will present a study of the techniques of Calculus with emphasis placed on the application of these concepts in problems related to business and managerial science. (C-ID MATH 140)
Prerequisite: MTH 80, with a minimum grade of C, or qualification for MTH 230 through the placement process.

MTH-532 Just in Time Support for Statistics
0.0 Units / 2.0 hours LEC
Noncredit Course
This course will provide a just in time review of core prerequisite skills, competencies, and concepts needed for success in Statistics and is intended for students who are concurrently enrolled in MTH 220 - Statistics. Topics include computational skills traditionally developed in pre-algebra and algebra courses, and descriptive statistics that are needed to understand the basics of college-level statistics. This course is intended for students with little or no recent knowledge of algebra.
Corequisite: MTH 220
Course exempt from repeat provisions

MTH-540 Math Lab
0.0 Units / 1.5 - 4.5 hours LAB
Noncredit Course
This course will provide supplemental math skills support. Students will have the opportunity to work on assignments and get help as needed from a Math instructor either while enrolled in a Math course, or in preparation for their future Math courses. Students who require Math Lab as a corequisite for enrollment in a math class should enroll in Math 542.
Course exempt from repeat provisions

MTH-541 Mathematics Institute
0.0 Units / 0.5 - 3.0 hours LAB
Noncredit Course
This course will provide targeted mathematics support for students interested in preparing for a future Math course. Students will have the opportunity to develop and refresh study skills and problem solving skills through supervised practice and supplemental instruction.
Course exempt from repeat provisions
MTH-542 Math Lab for Corequisite Support
0.0 Units / 2.0 hours LAB
Noncredit course for Pass/No Pass or Satisfactory Progress
This course will provide supplemental math skills support for those who require a corequisite Math Lab for enrollment in a math course. Students will have the opportunity to work on assignments, review concepts applicable to their current course, and get help as needed from a Math instructor. Students who do not have a corequisite requirement should enroll in MTH 540 for Math Lab support.
Limitation on enrollment: Enrollment is limited to students who require Math Lab as a corequisite for enrollment in their math course. Students who do not have a corequisite requirements should enroll in MTH 540.
Course exempt from repeat provisions

MTH-546 Pre-College Mathematics
0.0 Units / 5.0 hours LAB
Noncredit Course
This course will provide students with individualized opportunities to learn or review mathematical concepts needed for success in a variety of math courses, technical fields, or for personal enrichment. Students will be able to personally select their content from topics such as signed numbers, fractions, decimals, percentages, linear equations, graphing, and unit analysis.
Course exempt from repeat provisions

MTH-560 Algebra Concepts for STEM
0.0 Units / 5.0 hours LAB
Noncredit Course
This course will provide students with individualized opportunities to learn or review mathematical concepts needed for success in math-intensive disciplines. Students will be able to personally select their content from topics such as solving equations and inequalities, graphing, exponents, polynomials, rational expressions, radicals, quadratic functions, and factoring. The course is intended for students majoring in math, a science discipline, computer science, or other math-intensive fields.
Course exempt from repeat provisions

MUSIC

Course Families
Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

Guitar: MUS 222A, MUS 222B, MUS 222C, MUS 222D
Piano: MUS 210A, MUS 210B, MUS 210C, MUS 210D
Recording Studio Lab: MUS 115A, MUS 115B, MUS 115C, MUS 115D

MUS-110 Recording Studio Techniques I
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will focus on the study of recording, mixing, and producing music in a recording studio. Emphasis will be on the digital recording principles, acoustics, microphone selection and use, multi-track recording and basic mixing. Students will experience hands-on recording of studio sessions and concerts. The course includes an emphasis on the development of appreciation for the integrity of both emotional and intellectual responses to recordings of music from Western and non-Western cultures.
Corequisite: MUS 115A
MUS-111 Recording Studio Techniques II CSU
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/ No Pass
This course will focus on audio recording systems, components, and philosophies. There will be an emphasis on the daily workings of a recording studio with experience in microphone placement, the mixing console, synchronization, and analog, digital, and hard disk recording. Students will experience hands-on recording of studio sessions and concerts. It will include an emphasis on the development of an appreciation for the integrity of both emotional and intellectual responses to recordings of music from Western and non-Western cultures.
Prerequisite: MUS 110 with a minimum grade of C
Corequisite: MUS 115B

MUS-112 Recording Techniques III CSU
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will cover advanced technologies in digital and analog recording, mixing, and editing. The role of the producer is explored including recording, mixing arranging, analyzing projects, session planning, communication, budgeting, business aspects, technical considerations, and music markets.
Prerequisite: MUS 111 and MUS 115B with a minimum grade of C
Corequisite: MUS 115C

MUS-113 Recording Techniques IV CSU
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will cover the advanced practice of procedures and techniques in recording and manipulating audio. The course includes an in-depth study of digital audio editing, advanced recording and engineering techniques including advanced automation; mixing, product manufacturing, professionalism in the workplace including the role of the tracking engineer, mixing engineer and mastering engineer. Session strategies including budgeting, technical considerations, business aspects and marketing will be analyzed and discussed. The course will cover multi-media audio including audio production for film.
Prerequisite: MUS 112 and MUS 115C with a minimum grade of C
Corequisite: MUS 115D

MUS-115A Recording Studio Laboratory CSU
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/ No Pass
This course will focus on practical applications of recording techniques including the recording of rehearsals, performances, and class projects.
Corequisite: MUS 110

MUS-115B Recording Laboratory II CSU
1.0 Units / 3.0 hours LAB
Credit course for letter grade only
This course will focus on practical applications of audio recording systems, components and philosophies. Students will experience hands-on recording of studio sessions, ensemble rehearsals, and live performances. This course emphasizes study in the daily workings of a recording studio.
Prerequisite: MUS 110 and MUS 115A with a minimum grade of C
Corequisite: MUS 111

MUS-115C Recording Laboratory III CSU
1.0 Units / 3.0 hours LAB
Credit course for letter grade only
This course will focus on the comprehensive study in digital audio recording with Digidesign Pro Tools. Topics include digital audio theory, theory of analog and digital recording, signal flow, microphones, mixers, monitors, and hands-on introduction to the Pro Tools system.
Prerequisite: MUS 111 and MUS 115B with a minimum grade of C
Corequisite: MUS 112
MUS-115D Recording Laboratory IV  
1.0 Units / 3.0 hours LAB  
Credit course for letter grade only  
This course will cover the practical application of digital and analog recording equipment and processes. In addition to recording, editing, and mixing, mastering techniques will be covered.  
Prerequisite: MUS 112 and MUS 115C with a minimum grade of C  
Corequisite: MUS 113

MUS-199 Independent Study  
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.  
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

MUS-200 Fundamentals of Music  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will focus on notation and primary elements of tonal music. It incorporates the following concepts: staff notation in treble and bass clefs, rhythm and meter; basic properties of sound; intervals; diatonic scales and triads; and diatonic chords. Development of skills in handwritten notation is expected. The course includes an emphasis on the development of an appreciation for the integrity of both emotional and intellectual responses to music of Western and non-Western cultures. (C-ID MUS 110)

MUS-201A Music Theory/Musicianship I  
4.0 Units / 4.0 hours LEC  
Credit course for letter grade only  
This course will focus on the study of common practice diatonic harmony and musicianship. Activities will include realization of figured bass, harmonization of melodies, and analysis of musical examples with regard to their historical and cultural context. (C-ID MUS 120, MUS 125)  
Recommended Preparation: MUS 200 or equivalent skill is strongly recommended.

MUS-201B Music Theory/Musicianship II  
4.0 Units / 4.0 hours LEC  
Credit course for letter grade only  
This course will incorporate the concepts from Music Theory I. In addition, through guided composition and analysis, the course will include: an introduction to two-part counterpoint; voice leading involving four-part chorale writing; diatonic harmony; and an introduction to secondary function in tonicization and modulation. (C-ID MUS 130, MUS 135)  
Recommended Preparation: MUS 201A

MUS-202A Music Theory/Musicianship III  
4.0 Units / 4.0 hours LEC  
Credit course for letter grade only  
This course will incorporate the concepts from Music Theory/Musicianship II. In addition, through composition and analysis, the course will include: introduction to chromatic harmony; secondary/applied chords; modulation; borrowed chords; and an introduction to Neapolitan and augmented-sixth chords. (C-ID MUS 140, MUS 145)  
Recommended Preparation: MUS 201B

MUS-202B Music Theory/Musicianship IV  
4.0 Units / 4.0 hours LEC  
Credit course for letter grade only  
This course incorporates concepts from Music Theory/Musicianship III. In addition, through writing and analysis, the course will include: post-Romantic techniques such as borrowed chords and modal mixture; chromatic mediants; Neapolitan and augmented-sixth chords; 9th, 11th, and 13th chords; altered chords; and 20th century techniques such as: Impressionism, tone rows, set theory, pandiatonicism, and polytonalism. (C-ID MUS 150, MUS 155)  
Recommended Preparation: MUS 202A
MUS-203 Music History and Literature I  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will focus on the history of music in Western Civilizations including the Middle Ages, Renaissance, and Baroque style periods of music. The analysis of established musical forms will be included. It includes an emphasis on the development of an appreciation for the integrity of both emotional and intellectual responses to music of Western cultures. (C-ID MUS 105)  
Recommended Preparation: ENG 200

MUS-204 Music History and Literature II  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will focus on the history of music in Western Civilizations including the Classical, Romantic, Early 20th and New Music style periods of music. Analysis of established musical forms will be included. It also includes an emphasis on the development of an appreciation for the integrity of both emotional and intellectual responses to music of Western cultures. (C-ID MUS 106)  
Recommended Preparation: ENG 200

MUS-207 Introduction to Music Appreciation  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will include the survey of art music in western civilization. Topics studied include but are not limited to elements of music, basic musical forms, music periods, styles, and the role of music and musicians in the western world. It includes an emphasis on the development of an appreciation for the integrity of both emotional and intellectual responses to music of Western and non-Western cultures. (C-ID MUS 100)  
Recommended Preparation: ENG 200

MUS-208 Music in World Culture  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will explore music and its roles and functions in cultures around the world. Because the context of music is important in any culture and for any genre, this course focuses on the music itself and how it serves as a representation of each respective culture.  
Recommended Preparation: ENG 200

MUS-209 History of Rock and Jazz Styles  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will cover elements of jazz and rock with attention to stylistic differences throughout their history. The evolution and influence of the music of jazz and rock in relation to modern day culture will be examined and analyzed.  
Recommended Preparation: ENG 200

MUS-210A Piano: Beginning I  
2.0 Units / 1.5 hours LEC; 1.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course will focus on the introduction to playing the piano, interpreting musical notation and using the basic elements of music. Course objectives include ability to read, analyze and perform beginning level piano literature. (C-ID MUS 170)

MUS-210B Piano: Beginning II  
2.0 Units / 1.5 hours LEC; 1.5 hours LAB  
Credit course for grade or Pass / No Pass  
This course focuses on the continued piano instruction at the beginning level. An electronic keyboard system will be used to learn how to read music and perform in ensemble. Students will study music of different styles, eras, and cultures. Recommended for students preparing to teach in the elementary music majors, and interested students. Student placement to be determined by the instructor. (C-ID MUS 171)  
Prerequisite: MUS 210A with a minimum grade of C
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MUS-230A Beginning Voice  
**1.0 Units / 0.5 hours LEC; 1.5 hours LAB**  
**Credit course for grade or Pass/No Pass**  
This course will focus on the art of singing with emphasis on the vocal mechanism and its care and use in solo and ensemble settings. Topics will include tone production, breath control, diction, and interpreting music notation.

MUS-230B Intermediate Voice  
**1.0 Units / 0.5 hours LEC; 1.5 hours LAB**  
**Credit course for grade or Pass/No Pass**  
This course will focus on the art of singing with emphasis on the vocal mechanism and its care and use in solo and ensemble settings at the intermediate level. Topics will include tone production, breath control, diction, and interpreting music notation. It will include the interpretation of popular and classical repertoire, including foreign language repertoire.  
*Prerequisite: MUS 230A with a minimum grade of C*

MUS-230C Singers’ Repertoire I  
**1.0 Units / 0.5 hours LEC; 1.5 hours LAB**  
**Credit course for grade or Pass/No Pass**  
This course will include the interpretation of classical and popular vocal repertoire. Material covered will include English, Italian, French, and German art songs; Italian, French, English, and German opera arias; songs from the musical theatre; and jazz and popular songs. Includes in-class and public performance.  
*Prerequisite: MUS 230B with a minimum grade of C*

MUS-230D Singers’ Repertoire II  
**1.0 Units / 0.5 hours LEC; 1.5 hours LAB**  
**Credit course for grade or Pass/No Pass**  
This course will include the continuing development of vocal proficiency and differentiation of techniques for differing musical styles. Study of art songs in English, Italian, German, and French will continue, with opera arias in the same languages. Musical theatre and popular repertoire will continue to be developed. Includes in-class and public performances.  
*Prerequisite: MUS 230C with a minimum grade of C*

MUS-250 Applied Music - Individual Instruction  
**1.0 Units / 3.0 hours LAB**  
**Credit course for letter grade only**  
This course will provide individualized study of the appropriate techniques and repertoire for the specific instrument or voice being studied. The emphasis is on the progressive development of skills needed for solo performance. Achievement is evaluated through a juried performance. Enrollment is subject to a standardized audition demonstrating basic competencies in technique and musicianship in the student’s major performance medium.  
*(C-ID MUS 160)*  
*Corequisite: Enrollment in faculty approved music ensemble. Ensembles to be selected from the following: MUS 256; MUS 272; MUS 276; MUS 278; MUS 280; MUS 281; or MUS 285.*  
*Limitation on Enrollment: Instructor permission and a successful audition are required.*  
*May be taken for a maximum of 4 enrollments.*

MUS-256 Jazz Band  
**1.0 Units / 3.0 hours LAB**  
**Credit course for grade or Pass/No Pass**  
This course will include the study and performance of Big Band Jazz literature and will include the investigation of the fundamental techniques associated with jazz performance. The course includes an emphasis on the development of an appreciation for the integrity of both emotional and intellectual responses to music of Western and non-Western cultures. Attendance at scheduled rehearsals, sectionals and performances is required.  
*Limitation on enrollment: Instructor permission and a successful audition are required.*  
*May be taken for a maximum of 4 enrollments*
MUS-272 Symphonic Band
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will include the study and performance of selected large-scale band literature. The emphasis will be repertoire scored for an ensemble with multiple part duplication. It will include the development of an appreciation for the integrity of both emotional and intellectual responses to music of Western and non-Western cultures. Attendance at scheduled rehearsals and performances is required. (C-ID MUS 180)
Recommended Preparation: Ability to play a band instrument
May be taken for a maximum of 4 enrollments

MUS-276 Symphony Orchestra
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will include the study and performance of selected large scale orchestral literature with an emphasis on repertoire scored for an ensemble with multiple part duplication. This course emphasizes both the emotional and the intellectual responses to Western and non-Western music. The student must demonstrate an ability to read printed music at sight on an orchestral instrument. Attendance at scheduled rehearsal and performances is required. (C-ID MUS 180)
Limitation on enrollment: Instructor permission
May be taken for a maximum of 4 enrollments

MUS-278 Chamber Orchestra
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will include the study and performance of selected small-scale orchestral literature with an emphasis on repertoire scored for an ensemble with multiple part duplication. This course emphasizes both the emotional and intellectual responses to the assigned musical literature. Student must demonstrate an ability to read printed music at sight on an orchestral instrument. Attendance at scheduled rehearsals and performances is required. (C-ID MUS 180)
Limitation on enrollment: Instructor permission
May be taken for a maximum of 4 enrollments

MUS-280 Masterworks Chorale
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will include the study and performance of selected large-scale choral literature accompanied by orchestra. The emphasis will be repertoire scored for an ensemble with multiple soprano, alto, tenor and bass part duplication. Attendance at scheduled rehearsals and performances is required. (C-ID MUS 180)
May be taken for a maximum of 4 enrollments

MUS-281 Concert Choir I
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will focus on traditional choral music. The Concert Choir is a 40-60-voice mixed ensemble dedicated to the study, rehearsal, and performance of a cappella and accompanied choral literature from the Renaissance to the contemporary era. It is designed for the music major and students interested in singing great four-part choral music at the introductory level. The student will be required to attend scheduled rehearsals and performances.
Limitation on enrollment: Instructor permission and a successful audition are required.
May be taken for a maximum of 4 enrollments

MUS-285 Vocal Jazz Ensemble
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will focus on the study and interpretation of vocal jazz styles. Emphasis is on improvisation, solo, and ensemble technique. Attendance at scheduled rehearsals and performances is required. (C-ID MUS 180)
Limitation on Enrollment: Instructor permission based on audition of sight reading and vocal technique skills.
May be taken for a maximum of 4 enrollments
MUS-530 Singing for Older Adults  
0.0 Units / 0.50 hours LEC; 1.5 hours LAB  
Noncredit course for Pass / No Pass or Satisfactory Progress  
This course will introduce older adults to a variety of techniques unique to vocal performance through an exploration of repertoire, history, and performance practices. The focus of the course is on the development of personal artistic interest, aptitude, creative self-expression and enrichment of quality of life. Course activities will promote or help maintain physical, mental, social and emotional well-being and accommodate varying skill levels. Instruction in technical and stylistic performance, cultural context, music appreciation, critical listening, and performance and practice techniques will be provided.  
Course is exempt from repeat provisions  

MUS-556 Jazz Band for Older Adults  
0.0 Units / 3.0 hours LAB  
Noncredit Course  
This course will introduce older adults to a variety of techniques unique to instrumental performance through an exploration of jazz repertoire, history, and performance practices. The focus of the course is on the development of personal artistic interest, aptitude, creative self-expression and enrichment of quality of life. Course activities will promote or help maintain physical, mental, social and emotional well-being and accommodate varying skill levels. Instruction in technical and stylistic performance, cultural context, music appreciation, critical listening, and performance and practice techniques will be provided.  
Course is exempt from repeat provisions  

MUS-572 Symphonic Band for Older Adults  
0.0 Units / 3.0 hours LAB  
Noncredit Course  
This course will introduce older adults to a variety of techniques unique to instrumental performance through an exploration of wind ensemble repertoire, history, and performance practices. The focus of the course is on the development of personal artistic interest, aptitude, creative self-expression and enrichment of quality of life. Course activities will promote or help maintain physical, mental, social and emotional well-being and accommodate varying skill levels. Instruction in technical and stylistic performance, cultural context, music appreciation, critical listening, and performance and practice techniques will be provided.  
Course is exempt from repeat provisions  

MUS-576 Symphony Orchestra Band for Older Adults  
0.0 Units / 3.0 hours LAB  
Noncredit Course  
This course will introduce older adults to a variety of techniques unique to instrumental performance through an exploration of orchestral repertoire, history, and performance practices. The focus of the course is on the development of personal artistic interest, aptitude, creative self-expression and enrichment of quality of life. Course activities will promote or help maintain physical, mental, social and emotional well-being and accommodate varying skill levels. Instruction in technical and stylistic performance, cultural context, music appreciation, critical listening, and performance and practice techniques will be provided.  
Course is exempt from repeat provisions  

MUS-580 Masterworks Chorale for Older Adults  
0.0 Units / 3.0 hours LAB  
Noncredit Course  
This course will introduce older adults to a variety of techniques unique to choral performance through an exploration of repertoire, history, and performance practices. The focus of the course is on the development of personal artistic interest, aptitude, creative self-expression and enrichment of quality of life. Course activities will promote or help maintain physical, mental, social and emotional well-being and accommodate varying skill levels. Instruction in technical and stylistic performance, cultural context, music appreciation, critical listening, and performance and practice techniques will be provided.  
Course is exempt from repeat provisions
MUS-585 Vocal Jazz for Older Adults  
*0.0 Units / 3.0 hours LAB*  
**Noncredit Course**  
This course will introduce older adults to a variety of techniques unique to vocal jazz performance through an exploration of repertoire, history, and performance practices. The focus of the course is on the development of personal artistic interest, aptitude, creative self-expression and enrichment of quality of life. Course activities will promote or help maintain physical, mental, social and emotional well-being and accommodate varying skill levels. Instruction in technical and stylistic performance, cultural context, music appreciation, critical listening, and performance and practice techniques will be provided.  
*Course is exempt from repeat provisions*

**NATURAL RESOURCES**

NRS-199 Independent Study  
*CSU*  
*0.5 - 4.0 Units / 1.5 - 12.0 hours LAB*  
**Credit course for grade or Pass / No Pass**  
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.  
**Limitation on Enrollment:** The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

NRS-200 Environmental Science  
*CSU (B1, B2), UC, IGETC (5A), MC (A)*  
*3.0 Units / 3.0 hours LEC*  
**Credit course for grade or Pass / No Pass**  
This course will introduce students to Environmental Science, a field that brings aspects of biology, physics and chemistry together with geology and geography to understand the earth and its interrelated systems. The main emphasis is on sustainable use of Earth's resources and the reduction of pollution. The focus on both physical and biological principles is critical when dealing with complex environmental problems. (C-ID GEOL 130)  
**Recommended Preparation:** ENG 200

NRS-200L Environmental Science Laboratory  
*CSU (B3), UC, IGETC (5C)*  
*1.0 Units / 3.0 hours LAB*  
**Credit course for grade or Pass / No Pass**  
This course will present hands-on, inquiry-based learning in topics associated with Environmental Science, including field trips to local sites. Experiences will include applications of physical science principles, ecological studies, and exposure to sustainability issues related to human society.  
**Prerequisite:** NRS 200 with a minimum grade of C  
**Corequisite:** NRS 200

**NURSING**

NUR-50 LVN-RN Transition  
*1.0 Units / 1.0 hours LEC*  
**Credit course for letter grade only**  
This course will provide the concepts necessary to facilitate transition of the LVN to the changing role of the Registered Nurse. Emphasis will be on nursing process, role transitioning, evidence based practice and legal/ethical issues.  
**Prerequisite:** Active California Licensed Vocational Nurse from a program with an OB and pediatric component and formal admission to Mendocino College LVN to RN Program

NUR-52A Nursing Technical Lab 1  
*1.0 Units / 3.0 hours LAB*  
**Credit course for letter grade only**  
This course will prepare first-semester RN students to achieve proficiency in basic systems head-to-toe assessments. Students will participate in assigned basic patient-care simulations and demonstrate proficiency in basic IV skills.  
**Corequisite:** NUR 102
NUR-52B Nursing Technical Lab II  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will prepare second-semester RN students to achieve proficiency in head-to-toe assessments focusing on pediatric and obstetrical clients. Students will participate in related patient-care simulations.  
Corequisite: NUR 112

NUR-52C Nursing Technical Lab III  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will prepare third-semester RN students to achieve proficiency in moderately advanced head-to-toe assessments. Students will participate in patient-care simulations to augment theory taught in lecture.  
Limitation on Enrollment: Acceptance into the Mendocino College RN Program  
Corequisite: NUR 122

NUR-52D Nursing Technical Lab IV  
1.0 Units / 3.0 hours LAB  
Credit for letter grade only  
This course will prepare fourth-semester RN students to achieve proficiency in advanced head-to-toe assessments. Students will participate in complex patient-care simulations including Mock Code.  
Limitation on Enrollment: Acceptance into the Mendocino College RN Program  
Corequisite: NUR 132

NUR-52T Nursing LVN-RN Transition Lab  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will prepare LVN-to-RN students to enter advanced nursing courses. This is a structured lab in which first-year RN skills will be verified and advanced skills developed. This course will also provide an opportunity for students to practice theory learned in the co-requisite NUR50 course.  
Corequisite: NUR 50

NUR-102 Nursing Concepts and Skills I  
10.0 Units / 5.0 hours LEC; 15.0 hours LAB  
Credit course for letter grade only  
This course will provide an introduction to nursing concepts and skills. Students are introduced to the application of critical thinking and the nursing process needed to provide basic care to clients. Emphasis is on promoting optimum health across the health-illness continuum.  
Limitation on Enrollment: Acceptance into the Mendocino College RN Program

NUR-105 Pharmacology I  
1.0 Units / 1.0 hours LEC  
Credit course for letter grade only  
This course will provide an introduction to the concepts of pharmacology and theory of medication administration for the Registered Nurse. Students will begin building their knowledge base regarding specific agents used to treat infectious diseases, acute and chronic pain, and diabetes.  
Limitation on Enrollment: Acceptance into the Mendocino College RN Program

NUR-112 Nursing Concepts and Skills II  
10.0 Units / 5.0 hours LEC; 15.0 hours LAB  
Credit course for letter grade only  
This course will continue nursing concepts and skills with a focus on common alterations of health and on promoting optimum health across the lifespan with emphasis on maternal/newborn and pediatric clients. Clinical experiences will include acute care and obstetric units and a wide variety of community care settings including pediatric clinics, public health, and outpatient perinatal services.  
Prerequisite: NUR 102, with a minimum grade of C, or equivalent
NUR-115 Pharmacology II
1.0 Units / 1.0 hours LEC
Credit course for letter grade only
This course will continue to develop the concepts of pharmacotherapy for the registered nurse. Content focuses on pharmacological considerations for the pediatric and maternal/newborn clients, pediatric dosage calculations, women's health agents, antiviral therapy, and respiratory and cardiac medications.
Prerequisite: NUR 105, with a minimum grade of C, or equivalent
Corequisite: NUR 112

NUR-116 Introduction to Nursing Seminar
1.0 Units / 1.0 hours LEC
Credit course for letter grade only
This course will introduce the second semester RN student to evidence based practice, patient teaching, and utilization of library and Internet resources to find professional nursing journal information.
Corequisite: NUR 112

NUR-121 Leadership and Management I
1.0 Units / 1.0 hours LEC
Credit course for letter grade only
This course will provide an introduction to the roles of the Registered Nurse as care provider and teacher. The semester focus will be on competencies expected of the graduate ADN including: critical thinking skills, patient education, ethical dilemmas, legal mandates, role transition, delegation and stress reduction.
Corequisite: NUR 122

NUR-122 Complex Medical/Surgical Nursing I
8.0 Units / 4.0 hours LEC; 12.0 hours LAB
Credit course for letter grade only
This course will introduce students to the specialty nursing areas of community health, psychiatric, emergency and disaster nursing. Emphasis will be on the pathological conditions of the neurological, cardiopulmonary, vascular, respiratory, genitourinary, and integumentary system as well as multisystem organ failure and shock. Students are expected to formulate and apply nursing care plans based on thorough assessment of patients in the clinical setting and on knowledge of pathophysiology and psychosocial needs of the patient.
Prerequisite: NUR 112 with a minimum grade of C

NUR-125 Pharmacology III
1.0 Units / 1.0 hours LEC
Credit course for letter grade only
This course will continue the concepts of pharmacotherapy for the Registered Nurse. Content includes pharmacological considerations for the patient with anxiety, insomnia, seizure disorder, hypertension, dysrhythmias, heart failure, degenerative diseases of the nervous system, and degenerative bone and joint disorders.
Prerequisite: NUR 115, with a minimum grade of C, or equivalent

NUR-126 Nursing Seminar I
2.0 Units / 2.0 hours LEC
Credit course for letter grade only
This course will build on the use of evidence based practice introduced in NUR 116. Students will integrate nursing knowledge and theory with concurrent experiences in the clinical setting. This course includes practice in interpretation of research based nursing journal articles and in classroom presentations.
Corequisite: NUR 122

NUR-131 Leadership & Management II
1.0 Units / 1.0 hours LEC
Credit course for letter grade only
This course will prepare the students to apply and interview for a new graduate nurse position. The course will build on concepts taught in previous leadership course with a focus on preparing for the application and interview process, roles in organization and planning, workplace safety, quality improvement and becoming an influential nurse.
Corequisite: NUR 132
COURSES

NUR-132 Complex Medical/Surgical Nursing II  
8.0 Units / 4.0 hours LEC; 12.0 hours LAB  
Credit course for letter grade only  
This course will expand on the area of psychiatric nursing introduced in NUR 122. Emphasis will be on the pathological conditions related to mental health, gastrointestinal system, biliary and hepatic system, hematologic and neoplasms disorders, obesity and endocrine disorders including diabetes and musculoskeletal disorders including musculoskeletal trauma.

NUR-135 Pharmacology IV  
1.0 Units / 1.0 hours LEC  
Credit course for letter grade only  
This course will provide a continuation of the concepts of pharmacotherapy for the Registered Nurse. Content includes pharmacological considerations for the patient with coagulation disorders, lipid disorders, shock, mood disorders, psychosis, immunological disorders, viral infections, angina, myocardial conditions, and neoplastic conditions.  
Prerequisite: NUR 125, with a minimum grade of C, or equivalent

NUR-136 Nursing Seminar II  
2.0 Units / 2.0 hours LEC  
Credit course for letter grade only  
This course will continue to explore the integration of nursing knowledge and theory with concurrent clinical experiences in mental health, management, and acute medical surgical nursing.  
Prerequisite: NUR 126, with a minimum grade of C, or equivalent

NUR-501 Nursing Mathematics Workshop  
0.0 Units / 0.5 hours LAB  
Noncredit Course  
This course will offer incoming registered nursing program students the opportunity to develop competence in nursing mathematics through instruction and supervised practice.  
Limitation on Enrollment: Acceptance into the Mendocino College RN Program  
Course is exempt from repeat provisions

PHILOSOPHY

PHL-210 Ethics  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will introduce theories of ethics related to morality, virtue, values and natural law with an emphasis on the critical evaluation of contemporary issues. The course will include both Western and non-Western perspectives. Students will study selected philosophical texts drawn from natural law, virtue, divine command, utilitarian and Eastern religious traditions. (C-ID LPPS 120, PHIL 120)  
Advisory: ENG 200

PHL-220 Introduction to Philosophy  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will explore philosophical ideas and methods as expressed through representative texts in the history of philosophy. Topics will include epistemology (knowledge & truth), the nature of reality, metaphysics, ethics (value), religion, mind, self, free will and reasoning. Students will develop skills in critical reading, interpretation, evaluation and analysis of philosophical texts. This course includes an introduction to Western and non-Western traditions. (C-ID PHIL 100)  
Advisory: ENG 200

PHL-230 Religions of the World  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will investigate the major tenets, practices and cultural expressions of the major religions of the world. Emphasis is placed on the relationship between individual belief and practice, and appreciation of the diversity of religious beliefs in relation to one's own.  
Advisory: ENG 200
PHYSICAL EDUCATION - ADAPTIVE

PEA-50 Adaptive Physical Fitness
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the basic fundamentals of Physical Fitness including cardiovascular endurance, muscular strength and endurance, and flexibility. The proper techniques and skills to enable the student to progress to a higher fitness level are developed in individual and/or small group settings.
Prerequisite: Verification for eligibility of Disabled Students Programs and Services

PEA-55 Adaptive Resistance Training
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the basic fundamentals of resistance training, specifically muscular fitness (strength and endurance). The proper techniques and skills to enable the student to progress to a higher level of muscular fitness developed in individual and/or small group settings.
Prerequisite: Verification for eligibility of Disabled Students Programs and Services

PHYSICAL EDUCATION - FITNESS

Course Families
Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

Cardiovascular Fitness: PEF 80, PEF 201, PEF 202, PEF 280
Resistance Training: PEF 216, PEF 217, PEF 218

PEF-80 Individual Exercise Lab
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB
Credit course for grade or Pass/No Pass
This course will provide general conditioning, focused on participation in an individualized exercise program. Emphasis is placed on activities that contribute to lifelong wellness.

PEF-201 Sport Related Physical Fitness Training
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the physical training elements that enhance participation in sports. It is a physical activity course and includes cardiovascular endurance, muscle strength and endurance, speed, agility, and balance.

PEF-202 Low Impact Fitness
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover physical conditioning to provide cardiovascular, strength, and flexibility fitness through active participation.

PEF-216 Weight Training
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will cover the general muscular endurance and strength components of physical fitness are enhanced and investigated through active participation in a resistance exercise program.

PEF-217 Circuit Weight Training
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will provide physical conditioning through circuit weight training. Emphasis will be put on enhance muscular endurance and strength as it applies to health and fitness.
PEF-218 Power Weight Lifting  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will introduce power lifting techniques for building power, strength and size in all muscle groups. It is an active participatory course.

PEF-280 Physical Fitness  
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will cover the techniques and application of an all-around physical fitness program. Students will gain an understanding of health and fitness through participation in a personal exercise program which emphasizes individual activities that contribute to lifelong wellness and fitness.

PHYSICAL EDUCATION - SPORT

Course Families  
Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

Team Sports: PES 204, PES 208, PES 224  

PES-204 Baseball  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will cover the fundamental skills, techniques, game strategies, and rules appropriate to baseball.

PES-208 Basketball  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will cover the fundamentals, rules, strategies necessary to play basketball. Teaching proper techniques and skills through drills and games to enable the student to progress to a higher skill level.

PES-224 Soccer  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will cover the basic techniques and skill required to play soccer.

PES-230 Beginning Aikido  
1.0 Units / 3.0 hours LAB  
Credit course for letter grade only  
This course is designed for students who want to develop introductory skills in aikido. Aikido is a powerful martial art developed in Japan. The practice of Aikido includes warm up and flexibility exercises, practical combative and defensive techniques combined with an appreciation for formal etiquette. Students will develop a greater understanding of the relationship between mind, body, and spirit, which will help them deal with both physical and mental conflict in a more positive way.

PES-264A Tennis-Beginning  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will cover the basic fundamentals, rules and strategies necessary to play tennis. The focus is on teaching the proper techniques and skills to enable the student to progress to a higher skill level.

PES-264B Tennis-Intermediate  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will cover the intermediate techniques, rules and strategies required to play tennis. Proper techniques and skills learned will enable progress to an intermediate skill level.
PES-273A Beginning Foil Fencing
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the fundamentals of the dynamic European martial art of foil fencing. Students will be instructed in the basics of the Italian School of Foil Fencing which will include (but not be limited to) proper foil fencing etiquette, vocabulary/terminology, placements of the weapon and corresponding hand positions, right-of-way rules, families of actions, proper footwork and movement patterns, and proper bouting etiquette.

PES-273B Intermediate Foil Fencing
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the intermediate instruction in Classic Italian foil fencing. Students will be expected to possess a basic knowledge of foil fencing which includes: proper fencing etiquette; terminology; placements of the weapon and corresponding hand positions; right-of-way rules; families of actions; proper footwork and movement patterns, as well as proper bouting etiquette.

PES-274A Self Defense
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce the fundamentals of self-defense and self-preservation. Students will be instructed in the basics of these fundamentals, which will include (but not limited to): the legal and moral aspects of self-defense; the social and psychological aspects of self-defense; verbal control and de-escalation; and, a wide variety of physical techniques for avoiding escalated conflict and protecting one's self in the event of a physical attack. Self-trauma assessment and immediate treatment of life threatening wounds/injuries will also be taught.

PHYSICAL THERAPIST ASSISTANT

The Physical Therapist Assistant Program at Mendocino College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Ave., Suite 100, Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org. If needing to contact the program/institution directly, please call Aura Whittaker at 707-467-1057 or email PTA@mendocino.edu.

PTA-101 Physical Therapy Practice for the PTA
2.0 Units / 2.0 hours LEC
Credit course for letter grade only
This course will introduce the students to the profession of Physical Therapist Assistant by covering the history, laws and ethics of the profession. Introduction to professional/medical documentation and quality assurance issues will be presented. Students will also study communication techniques, interpersonal relationships and psychosocial considerations in healthcare.
Prerequisite: Admission to the PTA Program

PTA-102 Pathology
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will introduce the pathophysiology of all major organ systems of the body. The etiology, signs, symptoms, diagnosis, prognosis and interventions related to common diseases and disorders seen in the physical therapy setting will be covered.
Prerequisite: Admission to the PTA Program

PTA-103 Patient Care Skills Theory
2.0 Units / 2.0 hours LEC
Credit course for letter grade only
The course will introduce students to the theory of basic patient care skills performed by the physical therapist assistant including positioning, monitoring vital signs, infection control techniques, transfer training and gait training. Students will also be introduced to the assessment and treatment processes of the physical therapist assistant.
Prerequisite: Admission to the PTA Program
Corequisite: PTA 103L
PTA-103L Patient Care Skills Lab  
1.0 Units / 3.0 hours LAB  
Credit course for letter grade only  
This course will provide practical training in basic care skills performed by the physical therapist assistant including position, monitoring vital signs, infection control techniques, transfer training and gait training. Students will also begin assessment and intervention techniques for the physical therapist assistant in this laboratory course.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 103

PTA-104 Clinical Kinesiology Theory  
2.0 Units / 2.0 hours LEC  
Credit course for letter grade only  
This course will cover kinesiology and anatomy of the musculoskeletal and neuromuscular systems. Emphasis will be on musculoskeletal anatomy and physiology including arthrokinematics, static and dynamic movement systems and associated clinical applications. Principles of goniometry and manual muscle testing will also be introduced.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 104L

PTA-104L Clinical Kinesiology Lab  
1.0 Units / 3.0 hours LAB  
Credit course for letter grade only  
This course will consist of the laboratory component of PTA 104 Clinical Kinesiology. Students will apply kinesiology and biomechanics principles of PTA 104 Clinical Kinesiology in a practical setting. Assessment of joint range of motion, muscle strength, posture and gait will be performed. Surface palpation skills will also be developed in this laboratory course.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 104

PTA-105 Therapeutic Exercise Theory  
2.0 Units / 2.0 hours LEC  
Credit course for letter grade only  
This course will cover the use of exercise as a preventative and rehabilitative modality for the treatment of pathological conditions. Emphasis is placed on the physiologic effects of exercise as well as the design and application of exercise programs to improve strength, flexibility, posture and balance. This course will also address exercise specific to cardiac rehabilitation, aquatic physical therapy and work hardening.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 105L

PTA-105L Therapeutic Exercise Lab  
1.0 Units / 3.0 hours LAB  
Credit course for letter grade only  
This course will provide the practical training for the use of exercise as a preventative and rehabilitative modality for the treatment of pathological conditions. It is the laboratory component of PTA 105 Therapeutic Exercise Theory and will allow for application of concepts taught in that course. Therapeutic exercise principles will be illustrated through practice for strength, flexibility, posture and balance. More specific programs of therapeutic exercise for cardiac rehabilitation, aquatic therapy and work hardening will also be covered.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 105

PTA-106 Therapeutic Agents Theory  
2.0 Units / 2.0 hours LEC  
Credit course for letter grade only  
This course will cover the use of physical agents in the treatment of common conditions seen in the physical therapy setting. Various thermal, mechanical and electromagnetic agents will be presented with corresponding indications and contraindications. Evidence based rationale for use of physical agents will also be addressed.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 106L
PTA-106L Therapeutic Agents Lab
1.0 Units / 3.0 hours LAB
Credit course for letter grade only
This course will instruct students in the safe and effective use of physical agents in the treatment of common conditions seen in the physical therapy setting. Students will learn correct set up and application of thermal, mechanical and electromagnetic agents. This course is the laboratory course that corresponds with PTA 106 Physical Agents Theory.
Prerequisite: Admission to the PTA Program
Corequisite: PTA 106

PTA-107 Orthopedic Management Theory
2.0 Units / 2.0 hours LEC
Credit course for letter grade only
This course will focus on dysfunction, disease and trauma of the musculoskeletal system. Concepts of tissue healing, signs and symptoms of orthopedic dysfunctions, surgical interventions and physical therapy interventions will be addressed. Students will be expected to integrate knowledge and skills from previous PTA coursework to the orthopedic patient.
Prerequisite: Admission to the PTA Program
Corequisite: PTA 107L

PTA-107L Orthopedic Management Lab
1.0 Units / 3.0 hours LAB
Credit course for letter grade only
This course will provide the practical training for assessment and treatment of the orthopedic conditions seen in the physical therapy setting. It is the laboratory component of PTA 107 Orthopedic Management and will focus on application of concepts taught in that course. Treatment strategies for disorders of the spine, upper extremity and lower extremity will be covered. Students will be expected to integrate knowledge and skills from previous PTA coursework and apply it to the orthopedic patient.
Prerequisite: Admission to the PTA Program
Corequisite: PTA 107L

PTA-108 Neurology and Development Theory
2.0 Units / 2.0 hours LEC
Credit course for letter grade only
This course will cover basic neuroanatomy and neurophysiology with a focus on human growth and development from birth to the aged adult. It will cover the physical, cognitive, social and emotional changes with aging and their impact on functional movement. The process of motor development through motor control and motor learning will be addressed and applied to treatment of neurologic conditions through the lifespan.
Prerequisite: Admission to the PTA Program
Corequisite: PTA 108L

PTA-108L Neurology and Development Lab
1.0 Units / 3.0 hours LAB
Credit course for letter grade only
This course will provide the practical training for the assessment and treatment of normal and abnormal neurodevelopment. It is the laboratory component of PTA 108 Neurology and Development and will focus on neurodevelopmental treatment techniques for pediatric patients and continuing through the lifespan. Fundamentals of treatment for neurological conditions in the adult and general treatment strategies related to geriatric patients will also be covered.
Prerequisite: Admission to the PTA Program
Corequisite: PTA 108
PTA-109 Neurologic Management Theory  
2.0 Units / 2.0 hours LEC  
Credit course for letter grade only  
This course will cover physical therapy interventions for common neurologic conditions. Additionally, assessment, medical management, environmental barriers, adaptive equipment, psychosocial issues and effective interdisciplinary management will also be covered as it applies to the patient with a neurologic condition. Students will apply neuroanatomy and developmental concepts learned in PTA 108 Neurology and Development to the adult patient with a neurologic condition.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 109L

PTA-109L Neurologic Management Lab  
1.0 Units / 3.0 hours LAB  
Credit course for letter grade only  
This course will cover the practical training for the assessment and treatment of common neurologic conditions by the physical therapist assistant. It is the laboratory component of PTA 109 Neurologic Management Theory and will apply principles of patient management taught in that course. It will incorporate treatment principles and progression from previous courses through the use of case studies.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 109

PTA-110 Advanced Procedures Theory  
2.0 Units / 2.0 hours LEC  
Credit course for letter grade only  
This course will cover physical therapy care for unique patient populations including patients with respiratory dysfunction, women’s health patients, oncology patients, amputees, patients with vestibular dysfunction, chronic pain patients and those with complex multi-system pathology. Topics include diagnoses, medical and physical therapy interventions, special considerations and equipment needs for these patient populations.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 110L

PTA-110L Advanced Procedures Lab  
1.0 Units / 3.0 hours LAB  
Credit course for letter grade only  
This course will provide the practical training for physical therapy care for unique patient populations including patients with respiratory dysfunction, women’s health patients, oncology patients, amputees, patients with vestibular dysfunction, patients with chronic pain and those with complex multi-system pathology. This is the laboratory portion of PTA 110 Advanced Procedures Theory. The focus of this course will be the application of concepts and interventions to patient treatment scenarios.  
Prerequisite: Admission to the PTA Program  
Corequisite: PTA 110

PTA-111 Professional Integration  
2.0 Units / 2.0 hours LEC  
Credit course for letter grade only  
This course will cover issues related to practice management and encourage problem solving skills to integrate all knowledge and skills learned throughout the PTA Program. The course will be discussion based and focus on learning through case studies. This course will also prepare students for licensure as a PTA and include a comprehensive exam covering all information taught in the PTA Program.  
Prerequisite: Admission to the PTA Program

PTA-118 Clinical Development  
3.0 Units / 3.0 hours LEC  
Credit course for letter grade only  
This course will provide students with the opportunity to observe physical therapy evaluation and treatment of patients by PTA program faculty. Students will observe physical therapy treatment during scheduled class time on campus as well as develop professional skills for clinical education experiences during semesters 3 and 4. This course will also familiarize students with the Clinical Performance Instrument to prepare them for future clinical education experiences in the program.  
Prerequisite: Admission to the PTA Program and completion of PTA program semester 1 coursework
PTA-121 Clinical Practicum I
6.0 Units / 19.0 hours LAB
Credit course for letter grade only
This course will provide students with the opportunity to observe and participate in patient care as directed by a clinical instructor. Students will be placed in a clinical setting for a full time (40 hrs/wk), eight-week clinical experience where they will apply knowledge and skills learned in semesters one, two and three of the PTA Program. Students will provide care as directed by a licensed physical therapist or physical therapist assistant for uncomplicated and complicated patients with the degree of supervision and guidance based on the patient and the environment. Students are expected to be operating at an intermediate level by the end of this clinical experience.
Prerequisite: Admission to the PTA Program and successful completion of all coursework prior to clinical practicum

PTA-122 Clinical Practicum II
6.0 Units / 19.0 hours LAB
Credit course for letter grade only
This course will provide students with the opportunity to observe and participate in patient care as directed by a clinical instructor. Students will be placed in a clinical setting for a full time (40 hrs/wk), eight-week clinical experience where they will apply knowledge and skills learned in semesters one through four of the PTA Program. Students will provide care as directed by a licensed physical therapist or physical therapist assistant for uncomplicated and complicated patients with the degree of supervision and guidance based on the patient and the environment. Students are expected to provide patient care and fulfill the role of the physical therapist assistant at entry level by the end of this clinical experience.
Prerequisite: Admission to the PTA Program and successful completion of all coursework prior to clinical practicum

PHYSICS

PHY-202 Introductory Physics
CSU (B1, B3), UC, IGETC (5A, 5C), 4.0 Units / 3.0 hours LEC; 3.0 hours LAB MC (A)
Credit course for grade or Pass / No Pass
This course will introduce classical and modern physics without the use of mathematics. Topics of study include motion, momentum, energy, thermodynamics, light, electricity and magnetism, relativity, atomic and nuclear physics.
Prerequisite: MTH 80 or high school Algebra II with a minimum grade of C

PHY-210 General Physics I
CSU (B1, B3), UC, IGETC (5A, 5C), 4.0 Units / 3.0 hours LEC; 3.0 hours LAB MC (A)
Credit course for grade or Pass / No Pass
This course will give students a non-calculus-based introduction to classical physics. Topics include vectors, kinematics and dynamics, Newton's Laws, work and energy, momentum, conservation principles, static equilibrium, vibrations and waves, fluids, sound, and thermodynamics. This course assumes knowledge of basic algebra and trigonometry and is recommended for students majoring in the life sciences and similar programs. (C-ID PHYS 105; PHYS 100S when PHY 211 is also completed)
Prerequisite: MTH 121 with a minimum grade of C

PHY-211 General Physics II
CSU (B1, B3), UC, IGETC (5A, 5C), 4.0 Units / 3.0 hours LEC; 3.0 hours LAB MC (A)
Credit course for grade or Pass / No Pass
This course will continue the non-calculus based introduction to classical physics of PHY 210. Topics include electric charge, field and potential, DC and AC circuits, magnetism, electromagnetic waves, light, optics, and modern physics. This course assumes knowledge of basic algebra and trigonometry and is recommended for students majoring in the life sciences. (C-ID PHYS 110; PHYS 100S when PHY 210 is also completed)
Prerequisite: PHY 210 or PHY 220 with a minimum grade of C

PHY-220 Physics for Scientists and Engineers I
CSU (B1, B3), UC, IGETC (5A, 5C), 4.0 Units / 3.0 hours LEC; 3.0 hours LAB MC (A)
Credit course for letter grade only
This course will begin a three-semester calculus-based physics sequence for scientists and engineers. This introduction to elementary mechanics includes the topics: vectors, Newton's laws, work and energy, rigid body rotation and angular momentum, conservation laws, gravitation, and oscillations. (C-ID PHYS 205; PHYS 200S when PHY 221 and PHY 222 are also completed)
Prerequisite: MTH 210 with a minimum grade of C
Recommended Preparation: PHY 210 and/or high school physics strongly recommended.
PHY-221 Physics for Scientists and Engineers II 
4.0 Units / 3.0 hours LEC; 3.0 hours LAB
Credit course for letter grade only
This course will be one of a three-semester calculus-based physics sequence for scientists and engineers. This introduction to electricity and magnetism includes the topics: electric charges and force, the electric field, the electric potential, electric current and resistance, the magnetic field and electromagnetic induction, DC and AC circuits, electromagnetic waves, and special relativity. (C-ID PHYS 210; PHYS 200S when PHY 220 and PHY 222 are also completed)
Prerequisite: PHY 220 and MTH 211 with a minimum grade of C
Corequisite: MTH 211
Recommended Preparation: MTH 212

PHY-222 Physics for Scientists and Engineers III 
4.0 Units / 3.0 hours LEC; 3.0 hours LAB
Credit course for letter grade only
This course will be one part of a three-semester calculus-based physics sequence for scientists and engineers. This introduction to thermodynamics, waves and modern physics includes the topics: heat and temperature, ideal gas laws, the first and second laws of thermodynamics, kinetic theory, heat engines and refrigerators, traveling and standing waves, interference, wave optics, geometrical optics, optical instruments, quantization, atomic physics, uncertainty, quantum mechanics, the nucleus and the Standard Model. (C-ID PHYS 215; PHYS 200S when PHY 220 and PHY 221 are also completed)
Prerequisite: PHY 220 and MTH 211 with a minimum grade of C

POLITICAL SCIENCE

POL-197 Political Science Internship 
1.0 - 8.0 Units / Credit course for grade or Pass / No Pass.
This course will enable students to earn credit for completing a supervised internship in national, state, local or related political organizations or government agencies. Internships are courses in which students demonstrate knowledge and skills learned in the classroom in a real work situation, while developing new job-specific knowledge and skills. Internships also help students better understand an occupation, and to gauge their interest and compatibility with a specific career. Students can earn up to 8 units per semester (for a total of 16 combined Work Experience units).
Limitation on Enrollment: Requires Instructor consent. Student must meet criteria for internship work site.
Recommended Preparation: POL 200, POL 201, POL 202, POL 203 or POL 204

POL-200 American Government and Politics 
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will provide an introduction to United States and California government and politics, including their constitutions, political institutions and processes, and political actors. The course also examines political behavior and its influences, as well as key contemporary political issues. (C-ID POLS 110)

POL-201 Comparative Politics
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will analyze different kinds of political systems, including their history, political institutions, processes and policies, the environments in which they occur, and their consequences. (C-ID POLS 130)

POL-202 Political Theory 
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will provide an introduction to the history of Western political thought, exploring approaches to understanding political theory and analyzing writings of classical and contemporary theorists. Course topics include fundamental concepts such as freedom, equality and justice; modern political ideologies such as liberalism, conservatism, socialism, and feminism; and human nature and the relationship between the individual and the state. (C-ID POLS 120, POLS 150)
POL-203 International Relations  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will provide an introductory survey of world politics involving a historical and theoretical analysis of the relations among states and international organizations. It will also explore contemporary problems and issues in global politics, including international institutions and global order; diplomacy and bargaining; war, conflict, terrorism, and weapons of mass destruction; international trade, finance and the global economy; international economic development; the global environment; and human rights. (C-ID POLS 140)

POL-205 Native Americans and Federal Indian Policy  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will examine Federal Indian policy from the Washington administration to today, including major government offices and programs that affect the Native American community. It will also examine the role of Native American people in the political system and political institutions; Native American political structures and functions; and the relationship between tribes and states.

PSYCHOLOGY

PSY-80 Effective Adult-Child Relationships  
1.0 Units / 1.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will explore strategies for establishing effective adult-child relationships and their role in the successful management of children's behavior. This course is cross listed as CDV 79.

PSY-85 Post-Traumatic Stress Disorder  
1.0 Units / 1.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will examine the psychological condition known as post-traumatic stress disorder (PTSD). PTSD is an intense emotional reaction to a profoundly distressing event or experience such as combat, domestic violence, rape, natural disasters, or terrorist attacks. Origins, diagnosis, and treatment options will be explored.

PSY-90 The Psychology of Stress and Coping  
1.0 Units / 1.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will provide an overview of human stress response. It identifies typical causes of stress in contemporary society and throughout history. It offers a range of positive and negative responses to stress, both physical and psychological. Students will learn to distinguish between stress response and anxiety, and will learn a spectrum of remedies for illnesses thought to be caused by or worsened by stress.

PSY-190 Introduction to Counseling  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will introduce students to the counseling profession by providing an overview of the psychological theories related to human behavior. It will address counseling methods and techniques in terms of the psychological theories employed (e.g., psychodynamic, existential, humanistic, cognitive, behavioral), as well as special topics in counseling (e.g., couples, child/adolescent, group, career, school, mental health). Special attention will be focused on the student's application and implementation of appropriate methods in a variety of situations.  
Recommended Preparation: ENG 200

PSY-199 Independent Study  
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.  
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.
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<td><strong>PSY-205 Introductory Psychology</strong></td>
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This course will provide an introduction to the field of psychology, defined as the scientific study of all human behaviors, including observable actions, emotions, and thinking processes. The approach of the course offers students a foundation for applying the principles of psychology to daily life, understanding the self and others, enhancing interpersonal relationships, and preparing for further study in psychology. Topics include the psychology-biology connection, learning, memory, mental processes, emotions, motivation, human development, mental illness, psychotherapy, human interaction, and methods used in psychological research. (C-ID PSY 110)

*Recommended Preparation: ENG 200*

<table>
<thead>
<tr>
<th><strong>PSY-206 Human Sexuality</strong></th>
<th>CSU (D9, E), UC, IGETC (4I), MC (B2, Wellness)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 Units / 3.0 hours LEC</td>
<td>Credit course for letter grade only</td>
</tr>
</tbody>
</table>

This course is an introductory overview of the field of human sexuality. Human sexuality will be examined from psychological, biological, sociocultural, and historical perspectives. Students will be encouraged to become aware of their own sexual attitudes, values, and behaviors and to evaluate the consistency of their behaviors within their own moral frameworks. Current sex norms and various aspects of interpersonal and individual sexual adjustment will be explored. (C-ID PSY 130)

*Recommended Preparation: ENG 200*

<table>
<thead>
<tr>
<th><strong>PSY-208 The Psychology of Loss and Death</strong></th>
<th>CSU (D9, E), UC, IGETC (4I), MC (B2, Wellness)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 Units / 3.0 hours LEC</td>
<td>Credit course for grade or Pass / No Pass</td>
</tr>
</tbody>
</table>

This course will examine the research and theories surrounding the human experience of death, loss, and grief. Topics include healthy vs. unhealthy grieving, psychological reactions to death and loss, cultural and religious variations in grief reactions, historical perspectives on loss and death, the real-life applications of understanding the grief process, and students’ own attitudes about loss and death.

*Recommended Preparation: ENG 200*

<table>
<thead>
<tr>
<th><strong>PSY-210 Life Span Developmental Psychology</strong></th>
<th>CSU (D9, E), UC, IGETC (4I), MC (B2, Wellness)</th>
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<tr>
<td>3.0 Units / 3.0 hours LEC</td>
<td>Credit course for letter grade only</td>
</tr>
</tbody>
</table>

This course will explore the predictable behavioral changes humans experience throughout their lifetime, from birth to aging and death. (C-ID PSY 180)

*Recommended Preparation: ENG 200*

<table>
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<tr>
<th><strong>PSY-212 Personality Theories</strong></th>
<th>CSU (D9, E), UC, IGETC (4I), MC (B2)</th>
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</thead>
<tbody>
<tr>
<td>3.0 Units / 3.0 hours LEC</td>
<td>Credit course for grade or Pass / No Pass</td>
</tr>
</tbody>
</table>

This course will explore the major historical and contemporary theories of personality and the application of these theories to the understanding and analysis of human behavior.

*Recommended Preparation: ENG 200*

<table>
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<tr>
<th><strong>PSY-215 Psychology of Personal Growth</strong></th>
<th>CSU (D9, E), UC, IGETC (4I), MC (B2)</th>
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</thead>
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<tr>
<td>3.0 Units / 3.0 hours LEC</td>
<td>Credit course for grade or Pass / No Pass</td>
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</tbody>
</table>

This course will examine personal growth and adjustment. Some of the topics covered include: Self-image and self-esteem, assertiveness, recognizing and regulating emotions, interpersonal relationships, career/work, and fulfilling one's potential.

*Recommended Preparation: ENG 200*

<table>
<thead>
<tr>
<th><strong>PSY-216 Social Psychology</strong></th>
<th>CSU (D9, E), UC, IGETC (4I), MC (B2)</th>
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<tr>
<td>3.0 Units / 3.0 hours LEC</td>
<td>Credit course for grade or Pass / No Pass</td>
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This course will explore the myriad interactions between people. Includes study of attitude formation and change, persuasion, conformity, obedience, and human aggression. (C-ID PSY 170)

*Recommended Preparation: ENG 200 and PSY 205*
**COURSES**

**PSY-218 Abnormal Psychology**

3.0 Units / 3.0 hours LEC

Credit course for grade or Pass/No Pass

This course will provide an introduction to the branch of psychology that studies and treats mental illness and psychological disorders. Areas of study include the diagnosis, treatment, and the social, environmental, and biological factors involved in psychopathology. (C-ID PSY 120)

Recommended Preparation: ENG 200

**PSY-220 Psychology of Gender**

3.0 Units / 3.0 hours LEC

Credit course for grade or Pass/No Pass

This course will explore the psychological implications of being male and female through the life cycle. The influence of traditional psychological theory and research in relation to the impact gender has on women's and men's behaviors. Gender issues will be addressed from both the social and individual level. Topics include: gender role development, gender identification, stereotypes, mental health, family roles, cognition, emotion, education, work, as well as analysis of the influences of the media and technology.

Recommended Preparation: ENG 200

**PSY-250 Research Methods for the Social Sciences**

3.0 Units / 3.0 hours LEC

Credit course for grade or Pass/No Pass

This course will provide an introduction to scientific research methods in the social sciences. Topics will include research ethics, research and experimental design, searching and synthesizing relevant literature, collecting and analyzing data, interpreting results, becoming familiar with American Psychological Association (APA) writing format, and critical analysis of scientific findings. (C-ID PSY 200)

Prerequisite: PSY 205 and MTH 220 with a minimum grade of C

**PSY-255 Introduction to Psychobiology**

3.0 Units / 3.0 hours LEC

Credit course for grade or Pass/No Pass

This course will provide an introduction to the physiological basis of behavior, with an emphasis on the nervous and endocrine systems and their relationship to human behavior. Topics include: sensation, perception, emotion, motivation, thinking, learning, memory, language development, genetics, human evolution and psychological disorders. (C-ID PSY 150)

Prerequisite: PSY 205 with a minimum grade of C

**REAL ESTATE**

**RLS-65 Fundamentals of Home Inspections**

1.0 Units / 1.0 hours LEC

Credit course for grade or Pass/No Pass

This course will introduce real estate professionals and home owners to basic construction techniques and terminology that will allow for the recognition of the visual signs or indications of defects in a structure, including the property itself. Such areas where trouble spots may be found include drainage, foundations, roofs, electrical, plumbing, and mechanical systems. It will also cover environmental constraints that can affect the desirability and value of a home.

**RLS-73 Real Estate Financial Calculations**

0.5 Units / 0.5 hours LEC

Credit course for grade or Pass/No Pass

This course will prepare the student who is considering buying a home or enhance the skills of real estate professionals who are actively engaged in the field of real estate. The student will learn to utilize the Calculated Industries Real Estate Calculator to compute real estate financial calculations found in a typical real estate transaction, such as down payment amounts, loan amortizations, and calculation of interest payments.
RLS-74 Real Estate Licensing Preparation
1.0 Units / 1.0 hours LEC
Credit course for grade or Pass/No Pass
This course will prepare students to pass the State Real Estate Salesperson’s or Broker’s Examinations through a concentrated review of the principles of real estate. The course will emphasize topics typically covered in the state examinations, such as property ownership, encumbrances, real estate agency, real estate law, contracts, finance, title and escrow, taxation, appraisal and real estate mathematics. Additionally, the course will focus on test-taking techniques and current content of the state examinations.

RLS-160 Real Estate Principles
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will survey the principles, concepts, and laws pertaining to the field of real estate. It is a prerequisite to and prepares the student for taking the real estate salesperson's license examination and applies toward the educational requirements for a broker's license.

RLS-161 Real Estate Practices
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will introduce the student to practical knowledge needed by persons engaged in the real estate business, relating to brokerage, salesmanship, marketing, overall procedures, forms, and contracts. Fulfills State licensing requirements for salesperson’s and broker’s license.
Recommended Preparation: RLS 160

RLS-162 Real Estate Appraisal
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will introduce students and real estate professionals to basic methods and techniques used in appraising real property; fundamental principles and techniques of valuation; types of appraisal reports; appraisal trade associations; and the code of ethics as it relates to residential property. This course fulfills State license requirements for salespersons and brokers.
Recommended Preparation: RLS 160 or real estate license

RLS-163 Real Estate Finance
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will focus on the regulations and procedures for financing real estate; types of lenders, loans, and types of financing; and the processes of qualifying buyers and property. Fulfills State license requirements for brokers and salespersons.
Recommended Preparation: RLS 160

RLS-164 Legal Aspects of Real Estate
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will introduce students to California real property law, including rights incident to property ownership and management, estates in land, agency, community property, contracts, conveyances, escrow, property taxation, trust deeds, foreclosure, land use and zoning controls, and landlord/tenant relationships, as well as recent legislation and litigation governing real estate transactions.

RLS-167 Real Estate Economics
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will examine the causes and effects of value fluctuations in real estate, including the economic factors affecting real estate; urban development; urban renewal, and regulation of land uses; business fluctuations and real estate cycles; the financial markets; and commercial, industrial, and residential income properties and trends. This course fulfills State license and educational requirements for brokers and salespersons.
RLS-170 Property Management  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will review the principles and practices of managing residential, commercial, industrial, and special purpose income properties. Covers nature and types of property management, leases and contracts, collections, rent schedules, tenant selection and supervision, budgets, and purchasing. This course fulfills State license and educational requirements for brokers and salespersons.

RLS-172 Real Estate Investments  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass/No Pass  
This course will focus on the fundamentals of real estate investments and provide the student an understanding of real estate market activities that fluctuate as a function of supply and demand. Students will learn how investing in real estate can be profitable and/or be utilized as a tax shelter. Students will examine the various types of investment properties, such as residential, commercial and industrial, including environmental issues associated with land development.

SCIENCE  
SCI-51A Science Resource Laboratory A  
1.0 Units / 3.0 hours LAB  
Credit course taken for Pass / No Pass only  
This course will provide support for first semester science students currently enrolled in any natural science course at Mendocino College. This course offers additional time for developing competency in science topical areas, allows for additional time to review materials presented in the lecture and laboratory, and gives an opportunity for students to discuss course topics to develop a deeper understanding of course material.  
Corequisite: Concurrent enrollment in any AST, BIO, CHM, EAS, GEO, GEL, NRS, PHY course or EGR 202

SCI-51B Science Resource Laboratory B  
1.0 Units / 3.0 hours LAB  
Credit course taken for Pass / No Pass only  
This course will provide support for second semester science students currently enrolled in any natural science course at Mendocino College. This course offers additional time for developing competency in science topical areas, allows for additional time to review materials presented in the lecture and laboratory, and gives an opportunity for students to develop critical thinking strategies for scientific study.  
Corequisite: Concurrent enrollment in any AST, BIO, CHM, EAS, GEO, GEL, NRS, PHY course or EGR 202

SCI-51C Science Resource Laboratory C  
1.0 Units / 3.0 hours LAB  
Credit course taken for Pass / No Pass only  
This course will provide support for third semester science students currently enrolled in any natural science course at Mendocino College. This course offers additional time for developing competency in science topical areas, allows for additional time to review materials presented in the lecture and laboratory, and gives an opportunity for students to develop advanced study strategies.  
Corequisite: Concurrent enrollment in any AST, BIO, CHM, EAS, GEO, GEL, NRS, PHY course or EGR 202

SCI-51D Science Resource Laboratory D  
1.0 Units / 3.0 hours LAB  
Credit course taken for Pass / No Pass only  
This course will provide support for fourth semester science students currently enrolled in any natural science course at Mendocino College. This course offers additional time for developing competency in science topical areas, allows for additional time to review materials presented in the lecture and laboratory, and gives an opportunity for students to develop advanced techniques for effective study group formation and operation.  
Corequisite: Concurrent enrollment in any AST, BIO, CHM, EAS, GEO, GEL, NRS, PHY course or EGR 202
SCI-51E Science Resource Laboratory E
1.0 Units / 3.0 hours LAB
Credit course taken for Pass / No Pass only
This course will provide support for fifth semester science students currently enrolled in any natural science course at Mendocino College. This course offers additional time for developing competency in science topical areas, allows for additional time to review materials presented in the lecture and laboratory, and gives an opportunity for students to explore the difference between learning and studying.
Corequisite: Concurrent enrollment in any AST, BIO, CHM, EAS, GEO, GEL, NRS, PHY course or EGR 202

SCI-51F Science Resource Laboratory F
1.0 Units / 3.0 hours LAB
Credit course taken for Pass / No Pass only
This course will provide support for sixth semester science students currently enrolled in any natural science course at Mendocino College. This course offers additional time for developing competency in science topical areas, allows for additional time to review materials presented in the lecture and laboratory, and gives an opportunity for students to develop problem solving skills using systematic and disciplined approaches.
Corequisite: Concurrent enrollment in any AST, BIO, CHM, EAS, GEO, GEL, NRS, PHY course or EGR 202

SOCIOLGY
SOC-200 Introduction to Sociology
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will provide a set of concepts and theories to describe and explain the social behavior of human beings and organization of society. Students examine subjects such as culture, deviance, sexuality, media, social stratification, and the institutions of the family, religion, education, politics, and the economy. (C-ID SOCI 110)

SOC-201 Social Problems
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will provide an identification and analysis of contemporary social problems including the role of power, resources and ideology in the definition of social problems, their causes and consequences, evaluations of proposed solutions, and methods of intervention. Topics will vary. (C-ID SOCI 115)

SOC-203 Introduction to LGBT Studies
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will examine a broad range of contemporary LGBT issues in various domestic and global contexts including bio-medical, sociological and political. Additionally, students have the opportunity to explore intersecting identities while developing research and critical thinking skills vital for further progress in the program. (C-ID SJS 130)
Recommended Preparation: ENG 200

SOC-206 Introduction to Research Methods in Sociology
3.0 Units / 3.0 hours LEC
Credit course for letter grade only
This course will introduce students to the primary research methods used by social scientists with an emphasis on the research methodologies of sociology through an understanding of theory, sociological paradigms and empirical research. Focus will be on how social research is designed, conducted and analyzed both scientific logic as these apply to the methodologies used in conducting qualitatively and quantitatively. Major sociological research studies will be critiqued. Students will analyze specific data collected in the field. (C-ID SOCI 120)
Prerequisite: SOC 200 with a minimum grade of C
Recommended Preparation: MTH 220, with a minimum grade of C, or basic ability to perform statistical analysis highly recommended.

SOC-210 Marriage and Family Relations
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will provide a systematic study of the family as a social and historical institution. The biological, psychological and sociological factors that impact family relationships are considered, including mate selection, courtship, human sexuality, marital adjustment, parenthood, cohabitation, divorce and economic and social policies. Successful students will be able to apply major sociological concepts and paradigms related to family life. (C-ID SOCI 130)
SPANISH

SPN-100 Conversational Spanish: Level I
2.0 Units / 2.0 hours LEC
Credit course for grade or Pass/No Pass
This course will be a beginning level development of verbal skills in Spanish by means of vocabulary acquisition, structural practice and guided conversation. The course utilizes a practical conversational approach to learning a language. Course may not meet major requirements at transfer institutions. See your counselor for more information.

SPN-101 Conversational Spanish: Level II
2.0 Units / 2.0 hours LEC
Credit course for grade or Pass/No Pass
This course will be the second semester course continuing the development of practical language skills with the emphasis on speaking and listening. Course may not meet major requirements at transfer institutions. See your counselor for more information.
Recommended Preparation: SPN 100

SPN-102 Conversational Spanish: Level III
2.0 Units / 2.0 hours LEC
Credit course for grade or Pass/No Pass
This course will continue the development of practical language skills with the emphasis on speaking and listening. It is designed for those who have taken two semesters of beginning college Spanish or one to two years of high school Spanish with the emphasis on verbal skills. Mastery of the language is greatly enhanced through vocabulary and practical usage.
Recommended Preparation: SPN 101

SPN-199 Independent Study
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB
Credit course for grade or Pass/No Pass
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

SPN-200 Elementary Spanish: Level I
4.0 Units / 4.0 hours LEC
Credit course for grade or Pass/No Pass
This course will begin the instruction in understanding, speaking, reading, and writing Spanish. The development of pronunciation, vocabulary and conversational skills within the context of the exploration of cultures, histories and peoples of the Spanish-speaking world. (C-ID SPAN 100)

SPN-201 Elementary Spanish: Level II
4.0 Units / 4.0 hours LEC
Credit course for grade or Pass/No Pass
This course will continue the instruction and deepen the understanding, speaking, reading, and writing of Spanish. The material is presented within the context of the exploration of cultures, histories and peoples of the Spanish-speaking world and the US. (C-ID SPAN 110)
Prerequisite: SPN 200, with a minimum grade of C, or two years of high school Spanish

SPN-202 Intermediate Spanish: Level I
4.0 Units / 4.0 hours LEC
Credit course for grade or Pass/No Pass
The course will continue the instruction and deepen the understanding, speaking, reading and writing of Spanish at an intermediate level. Students will advance in their pronunciation, vocabulary and conversational skills within the context of the exploration of cultures, histories and peoples of the Spanish-speaking world. (C-ID SPAN 200)
Prerequisite: SPN 201, with a minimum grade of C, or three years of high school Spanish
SPN-203 Intermediate Spanish: Level II
4.0 Units / 4.0 hours LEC

Credit course for grade or Pass/No Pass

This course will continue the development and refinement of linguistic skills (reading, writing, listening and speaking) as well as the cultural exploration of literature and history of the Spanish speaking countries and that of Latinos in the US. (C-ID SPAN 210)
Prerequisite: SPN 202, with a minimum grade of C, or four years of high school Spanish

SPN-210 Spanish for Spanish Speakers: Level I
4.0 Units / 4.0 hours LEC

Credit course for grade or Pass/No Pass

This course will assist in the development and advancement of oral and written Spanish for the Spanish Speaker or other linguistically qualified students. It provides instruction that builds upon the existing reading, writing, speaking and listening skills and the cultural heritage and knowledge of students. The course develops awareness of linguistic registers, and appreciation for Latino cultures as manifested in Spanish speaking countries and in the United States. The study of language and literature will be approached from the perspective of a first language, not a foreign one.
Prerequisite: SPN 201 with a minimum grade of C

SPN-211 Spanish for Spanish Speakers: Level II
4.0 Units / 4.0 hours LEC

Credit course for grade or Pass/No Pass

This course will continue to provide instruction for the advancement of oral and written Spanish for the Spanish speaker, by expanding the literacy skills acquired in Spanish 210. The course will continue working on linguistic registers, literature devices, and expand upon the appreciation for Hispanic Cultures and literatures as manifested in the Spanish speaking countries and Latinos in the United States. This course is entirely conducted in Spanish. (C-ID SPAN 230)
Prerequisite: SPN 210 with a minimum grade of C

SPN-212 Introduction to Latin-American Literature and Film
4.0 Units / 4.0 hours LEC

Credit course for grade or Pass/No Pass

This course will introduce seminal works by Latino American and U.S. Latino writers and filmmakers. It explores Spanish literature and a variety of Latino films for the purpose of critique and analysis as a way to develop advanced academic writing. Selected novels, short stories and plays are thematically paired with films as tools to advance written expression in a variety of genres.
Prerequisite: SPN 203 or SPN 210 with a minimum grade of C

SUSTAINABLE CONSTRUCTION AND ENERGY TECHNOLOGY

SCT-162 Safety Standards for Construction
1.0 Units / 1.0 hours LEC

Credit course for grade or Pass/No Pass

This course will introduce students to important construction job site and workplace safety considerations, practices, and trade-related safety procedures. This course includes lecture and hands-on activities. This course provides curriculum to prepare students for the OSHA 10 Construction Training Certification card.

SCT-164 Construction Documents I: Understanding Blueprints
3.0 Units / 2.0 hours LEC; 3.0 hours LAB

Credit course for grade or Pass/No Pass

This course will cover the analysis and interpretation of blueprints, diagrams and schematics as generally used in construction, electrical, plumbing, HVAC, fabrication and related fields. Students are introduced to the importance and various uses of prints, diagrams and schematics, proper handling of documents on the job, common symbols, methods of interpretation, and checking for accuracy and completeness. This course includes review and application of basic math concepts needed for interpretation and extrapolation. This course provides beginning instruction in computer aided design and drafting, CADD.
Recommended Preparation: MTH 79 with a minimum grade of C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Credits</th>
<th>Lecture</th>
<th>Lab</th>
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</thead>
<tbody>
<tr>
<td>SCT-166</td>
<td>Introduction to Construction Management</td>
<td>2.0</td>
<td>2.0</td>
<td>LEC</td>
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<td>Credit course for grade or Pass/No Pass</td>
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<td>This course will introduce students to the processes</td>
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<td>and practices of construction project management. The</td>
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<td>course is designed to give construction workers,</td>
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<td>owner/builders and facility managers an introduction</td>
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<td>to managing projects.</td>
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<td>Recommended Preparation: MTH 79, SCT 164, and SCT</td>
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<td>184 with a minimum grade of C</td>
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<td>SCT-172</td>
<td>Introduction to CleanTech</td>
<td>3.0</td>
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<td>Credit course for grade or Pass/No Pass</td>
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<td>Clean Technology has recently emerged as the leading</td>
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<td>descriptor for a diverse range of products, services,</td>
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<td>and processes that harness renewable materials and</td>
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<td>energy sources, dramatically reduce the use of</td>
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<td>natural resources, and cut or eliminate emissions and</td>
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<td>wastes. This course offers an introductory survey of</td>
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<td>the technologies, trends, and opportunities that</td>
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<td>define this emerging field.</td>
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<td>Recommended Preparation: SCT 200</td>
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<tr>
<td>SCT-180A</td>
<td>Construction Fundamentals and Green Building</td>
<td>3.0</td>
<td>1.5</td>
<td>LEC; 4.5</td>
<td>LAB</td>
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<td>Credit course for grade or Pass/No Pass</td>
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<td>This course will introduce students to the fundamentals</td>
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<td>of residential construction and remodeling. Students</td>
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<td>learn the basic concepts and skills needed to prepare</td>
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<td>for entry-level employment in the construction</td>
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<td>industry. This course includes instruction and</td>
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<td>practice in the application of basic math skills for</td>
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<td>construction and the safe use of construction power</td>
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<td>and hand tools. Students are introduced to green</td>
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<td>relate to new code requirements and employment</td>
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<td>Recommended Preparation: ENG 200, MTH 79, SCT 162, and</td>
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<td>SCT 164 with a minimum grade of C</td>
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<td>SCT-180B</td>
<td>Advanced Construction Fundamentals</td>
<td>3.0</td>
<td>1.5</td>
<td>LEC; 4.5</td>
<td>LAB</td>
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<td>Credit course for grade or Pass/No Pass</td>
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<td>of residential construction and remodeling. Students</td>
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<td>needed to prepare for entry-level employment in the</td>
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<td>construction industry. This course includes</td>
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<td>instruction and practice in the application of</td>
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<td>basic math skills for construction and the safe use</td>
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<td>of construction power and hand tools. Students will</td>
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<td>continue to learn about construction practices and</td>
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<td>Green Building A.</td>
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<td>Prerequisite: SCT 180A with a minimum grade of C</td>
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<td>Recommended Preparation: SCT 164, SCT 184 and MTH 79</td>
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<td>with a minimum grade of C</td>
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<td>SCT-182</td>
<td>Residential Remodel and Repair</td>
<td>3.0</td>
<td>1.5</td>
<td>LEC; 4.5</td>
<td>LAB</td>
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<td>Credit course for grade or Pass/No Pass</td>
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<td>to maintain, remodel, repair, or renovate existing</td>
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<td>residential buildings. Green processes and materials</td>
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<td>with common maintenance, repair, and remodel tasks</td>
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<td>and learn about business opportunities and</td>
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<td>customer service strategies.</td>
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<td>Recommended Preparation: SCT 162, SCT 164, SCT 180A</td>
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<td>and MTH 79 with a minimum grade of C</td>
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<td>SCT-184</td>
<td>Construction Documents II: Building to Code and Beyond</td>
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<td>2.0</td>
<td>LEC</td>
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<td>Credit course for grade or Pass/No Pass</td>
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<td>regulatory and practical aspects of building codes</td>
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<td>related to the construction and energy trades. Students</td>
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<td>are introduced to the process of obtaining building</td>
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<td>completing a project to code specifications. Regulations</td>
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<td>codes are incorporated into plan sets. California</td>
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<td>Energy Code and CalGreen standards are explored and</td>
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<td>integrated into plan documents. Students will</td>
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<td>evaluate plan sets and develop code compliant</td>
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<td>Recommended Preparation: SCT 162, SCT 164, SCT 180A,</td>
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<td>and MTH 79 with a minimum grade of C</td>
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SCT-186 Introduction to Residential Electrical Systems
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course introduces students to the fundamentals of electricity as applied in residential construction and renovation. Students are introduced to the general principles of electricity, job site considerations, and safety practices. Proper use of tools and materials will be demonstrated and applied in a lab setting. This course includes an introduction to the National Electric Code (NEC), content on energy efficiency, and prepares students for employment and certification options.
Recommended Preparation: ENG 200, SCT 162, SCT 164, and MTH 79 with a minimum grade of C

SCT-189 Introduction to Plumbing
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course introduces students to the basic concepts, vocabulary, tools, materials, and practices of residential plumbing. Students learn about various plumbing systems, focusing on pipe, fittings, fixtures, layout, water heating, and concepts related to energy and resource efficient plumbing. This course includes an introduction to the Uniform Plumbing Code and hands-on practice in design, layout, installation, troubleshooting, and repair.
Recommended Preparation: SCT 162, SCT 164, and MTH 79 with a minimum grade of C

SCT-190 Introduction to Photovoltaics (Solar)
3.0 Units / 2.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course introduces students to the fundamentals of photovoltaic (solar) technology and the process of residential PV system design and installation. This course includes instruction and practice in site evaluation, basic financial analysis, and code compliant PV system design and installation. Students learn basic concepts and skills needed to work with potential clients and prepare for entry-level employment in the solar PV industry.
Recommended Preparation: SCT 162, SCT 164, SCT 186, and MTH 79 with a minimum grade of C

SCT-192 Residential Solar Thermal (Hot Water)
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course introduces students to the technology, applications, design, and installation of residential solar thermal (hot water) systems. This course includes instruction and practice in site evaluation, basic financial analysis, and code compliant system design and installation. Students learn about different types of solar thermal applications such as passive solar water heaters, drain-back systems, antifreeze systems, photovoltaic powered systems, pool heating systems, and radiant space heating systems. Students participate in site evaluation, simulated client interaction, and the design and installation of a demonstration system.
Recommended Preparation: SCT 162, SCT 164, SCT 189 and MTH 79 with a minimum grade of C

SCT-193 Building Performance and Weatherization
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course introduces students to the elements of residential design and construction that relate to energy efficiency, heating and cooling, air quality, and ventilation. Students learn how building performance is determined, gain hands-on experience using testing and monitoring equipment to assess a structure, and learn how to perform common efficiency upgrades. This course includes an introduction to the Home Rating System (HERS) and an overview of career and certification options.
Recommended Preparation: SCT 162, SCT 164, SCT 180A and MTH 79 with a minimum grade of C

SCT-194 Efficient Heating and Cooling
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course integrates energy efficiency and building performance principles with entry level HVAC knowledge and skill advancement. Students use an understanding of efficiency and performance principles to guide in the proper sizing, system design, and installation of typical residential heating and cooling technology. Students learn how to determine proper heat load and cooling load calculations using typical manual J methods, how to install, run ducts, wire, and program typical HVAC equipment. This course includes an overview of HVAC career opportunities and certification options.
Recommended Preparation: SCT 162, SCT 164, SCT 193 and MTH 79 with a minimum grade of C
SCT-195 Introduction to HVAC Maintenance and Repair

3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass

This course introduces students to HVAC maintenance, service, and repair. Students are given an overview of common heaters and air conditioners and gain hands-on experience in practicing preventive maintenance, troubleshooting, and repair. This course includes an overview of service technician training and certification opportunities and instruction on in-home customer service.

Recommended Preparation: SCT 162, SCT 164, SCT 193, SCT 194 and MTH 79

SCT-200 Sustainability Overview

3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass

This course introduces students to the concepts and principles that define Sustainability in current political, scientific and economic discourse. Through examination of the current state of the world students develop sustainability literacy in relation to environmental, social, and economic systems. Students are introduced to current and evolving responses to sustainability challenges and learn to assess potential viability and impact of these responses. An emphasis is placed on preparing students to take an active role in addressing sustainability challenges personally and professionally. Student projects help students integrate sustainability strategies into their own lives.

Recommended Preparation: ENG 200

SCT-500 Introduction to the Construction Trades

0.0 Units / 2.5 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress

The course will review the entire building process, introducing each trade for each of the building steps in a construction project. Students will be introduced to skills and tools required in fundamental trades such as project estimation, masonry carpentry, plumbing, and electric work, and will participate in hands-on demonstrations of these skills.

Recommended Preparation: SCT 540 and SCT 541

Course is exempt from repeat provisions

SCT-505 Introduction to the Construction Trades Lab

0.0 Units / 2.5 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress

This course will provide an opportunity for students to participate in hands-on practice of building trades skills, which may include operating power tools, framing walls, floors and roofs, basic plumbing and electrical exercises, masonry, and other related trade skills. This course may include field trips to work sites and participation in building projects.

Course is exempt from repeat provisions

SCT-515 Fork and Scissor Lift Operations Basics

0.0 Units / 0.25 hours LEC; 0.25 hours LAB
Noncredit course for Pass / No Pass or Satisfactory Progress

This course will introduce students to power lift equipment common on construction sites, and provide training in their safe operation, including powered industrial trucks (forklifts) and scissor lifts. Students will participate in demonstrations of equipment use, and receive certificates of course completion after successfully completing the course.

Course is exempt from repeat provisions

SCT-540 Construction Math A

0.0 Units / 1.0 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress

This course will introduce students to the computational skills needed in construction. Topics include measurement, number sense, estimation, basic statistics, trigonometric functions, and algebraic thinking.

Course is exempt from repeat provisions

SCT-541 Construction Math B

0.0 Units / 1.0 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress

This course will introduce students to the computational skills needed in construction. Topics include geometry, measurement, number sense, estimation, basic statistics, trigonometric functions, and algebraic thinking.

Prerequisite: SCT 540

Course is exempt from repeat provisions
COURSES

SCT-562 Safety Standards for Construction
0.0 Units / 1.0 hours LEC
Noncredit course for Pass / No Pass or Satisfactory Progress
This course will introduce students to important construction job site and workplace safety considerations, practices, and trade-related safety procedures. This course includes lecture and hands-on activities as well as providing curriculum to prepare students for the OSHA 10 Construction Training Certification card, which will be issued upon successful completing of the course.
Course is exempt from repeat provisions

THEATRE ARTS

Course Families
Course families are groups of active participatory courses that are related in content. Students are limited to no more than four attempts (grade or 'W') within each family group.

DANCE FAMILIES
Yoga: THE 236A, THE 236B

THEATRE FAMILIES
Theatrical Design: THE 217D, THE 235

THE-105A Narrative Theatre CSU
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for students to develop an original ensemble theatre production based on an established theme. Material may be drawn from original writing, personal stories, community-based interviews, or historical research. The focus will be on the development of ensemble performance skills, techniques for creating original performance material, and the role of theatre as community story telling. Students will learn to utilize theatre to reflect upon political, social, and cultural dynamics of a particular community; listen across cultural divides; and/or to give voice to personal stories. Topics will include the history, principles, and theatrical techniques of community-based and ensemble theatre.

THE-105B Play Development I CSU
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for playwrights, directors and actors to collaborate on the development of new plays. Through a workshop process, actors and directors will support playwrights in the revision and development of their work, culminating in a publicly presented new works festival.
Prerequisite: A successful audition and/or interview is required for entry into course.
THE-105C Play Development II
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will provide an opportunity for intermediate level playwrights, directors and actors to practice
intermediate level collaborative techniques for the development of new plays.
Prerequisite: THE 105B, with a minimum grade of C, an audition and/or interview is required.

THE-105D Play Development III
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will provide opportunity for experienced playwrights, directors and actors to practice more challenging
collaborative techniques for the development of new plays. Actor roles, directorial script assignments and
playwrights’ topics / themes will reflect the more advanced level of this course.
Prerequisite: THE 105C, with a minimum grade of C, and a successful audition/interview.

THE-160 Audition Techniques
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will help students prepare for professional, community and academic theatre auditions. This class is
recommended especially for students planning to transfer to professional acting conservatories and/or baccalaureate
acting programs. Each student develops a repertoire of classical and contemporary comic and serious audition pieces.
Practice in cold readings is also provided. Introduction to career preparation topics such as resumes, union agents,
and employment opportunities is also included.
Recommended Preparation: ENG 200 and THE 210B

THE-199 Independent Study
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB
Credit course for grade or Pass/No Pass
This course will enable students to explore areas of interest independent of the usual instructional setting. Student
and instructor agree upon a program of study, research, reading or activity which is individually tailored to the
needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based
on satisfactory performance and completion of 48 hours of coursework per unit.
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a
grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean,
Director of Admissions and Records, and VP of Academic Affairs.

THE-200 Introduction to Theatre
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will introduce students to the principles and purposes of theatre. It will survey Western drama from its
origins in ancient Greece through the Medieval, Renaissance, Modern and Contemporary periods. Students will also
examine non-Western theatrical styles, multi-cultural approaches and cross-cultural theatrical directions. Students
will investigate the creative contributions of playwrights, actors, directors, designers, stage managers, and
technicians. Lectures, films, theatre attendance, assigned reading, and practical "hands-on" projects will acquaint
students with some of the joys and challenges of creative work in the theatre. (C-ID THTR 111)

THE-201 Introduction to Film
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass/No Pass
This course will introduce students to the history and key formal elements of film. It will help students cultivate an
appreciation for the contributions made by actors, directors, writers and technicians in the film industry. Through
examination of a variety of film styles and periods, students will become more familiar with the history and present
day realities of the film industry.
THE-202 Dramatic Literature and Script Analysis  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will introduce students to techniques for reading, analyzing and understanding play scripts as literature intended for production. Students will read and discuss a variety of significant dramatic texts, with an emphasis on modern American plays. Some European and non-Western dramatic texts from various historical periods may also be included. Students will develop the ability to critically analyze play scripts, exploring such topics as theme, plot, character, dramatic structure and historical context. Careful attention will be given to the analytical and conceptual viewpoints of the actor, director and designer. (C-ID THTR 114)

THE-204 History and Appreciation of Dance  
3.0 Units / 3.0 hours LEC  
Credit course for letter grade only  
This course will introduce students to the history of Western theatrical dance, from early pre-Christian civilizations to the present. The course will trace the history and evolution of ballet, from early court dance in Renaissance Europe through the flowering of ballet and other forms of theatrical dance, such as modern and jazz, which emerged at the turn of the 20th century. The course will explore how dance influences and is influenced by the social and political culture at various times in history. By examining key events in dance history and the art of dance, students will learn to appreciate dance as a powerful form of human expression throughout the human history.  
Recommended Preparation: ENG 200

THE-206 Dance in World Cultures  
3.0 Units / 3.0 hours LEC  
Credit course for grade or Pass / No Pass  
This course will explore dance around the world and how it interacts with customs and beliefs within specific cultural groups. The course explores dance as an expression of religious worship, social order, power, cultural mores, as a theatrical art form, and as an emblem of cultural identity.  
Recommended Preparation: ENG 200

THE-208A Stagecraft I  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for grade or Pass / No Pass  
This course will introduce students to technical aspects of theatre production (including set construction, painting, rigging and shifting, basic lighting, properties construction, and stage management). Lab activities will relate to the college play in production. (C-ID THTR 171)  
Recommended Preparation: MTH 79

THE-208B Stagecraft II  
3.0 Units / 2.0 hours LEC; 3.0 hours LAB  
Credit course for letter grade only  
This course will explore advanced technical theatre production techniques in areas of scenery, props, scenic painting, rigging and stage management, through individual projects and participation in major productions and group projects.  
Prerequisite: THE 208A with a minimum grade of C

THE-210A Acting Improvisation  
3.0 Units / 2.5 hours LEC; 1.5 hours LAB  
Credit course for grade or Pass / No Pass  
This class will function as an improv ensemble, creating improvised theatre that is spontaneous, energetic and engaging. Fundamental acting techniques such as commitment, spontaneity and concentration will be addressed through exercises and performance. Most importantly, the course strives to create an environment of creative risk taking in which each student's full imagination may flourish. No previous theatre experience or preparation required.
THE-210B Beginning Acting  
3.0 Units / 2.5 hours LEC; 1.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will introduce students to fundamental acting techniques and terminology. While the class is challenging and useful for students with varying levels of experience, no prior work in theatre is required. Through exercises, scene work, and improvisation, students will develop their ability to "live truthfully under imaginary circumstances." The course focuses on Stanislavsky's technique of realistic action (objectives) for characterization and script analysis. The class will explore fundamental acting skills, such as: relaxation, concentration, listening and spontaneity. The course culminates in a public performance of student scenes. (C-ID THTR 151)  
Recommended Preparation: ENG 200

THE-210C Intermediate Acting: Scene Study  
3.0 Units / 2.5 hours LEC; 1.5 hours LAB  
Credit course for grade or Pass/No Pass  
This course will continue to develop fundamental acting techniques and terminology, with an increased emphasis on physicalization, ensemble techniques and personalization of given circumstances. The course culminates in a public performance of a group project. (C-ID THTR 152)  
Prerequisite: THE 210B with a minimum grade of C  
Recommended Preparation: ENG 200

THE-210D Acting Styles  
3.0 Units / 2.5 hours LEC; 1.5 hours LAB  
Credit course for grade or Pass/No Pass  
The course will explore the special demands of non-realistic and poetic drama. Students will rehearse and perform a variety of contemporary and classical scenes, including the works of Shakespeare, Moliere and the Greek tragedians. Special topics such as improvisation, vocal production, physicalization, commedia del arte, stage combat, and audition techniques may also be included as they relate to the material being studied. (C-ID THTR 152)  
Prerequisite: THE 210B with a minimum grade of C

THE-212A The Actor's Voice I  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will introduce students to effective techniques for vocal production for the stage. Students will develop the basic skills of relaxation, breath, resonance and articulation. Students will combine ongoing physical and vocal exercises with practical applications through rehearsal and performance of dramatic material.

THE-212B The Actor's Voice II  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will expand upon the techniques developed in The Actor's Voice I. Students will deepen their proficiency in the skills of relaxation, breath, resonance and articulation while additionally investigating various approaches and theories of voice production, developing a personal warm-up and learning the fundamentals of the International Phonetic Alphabet.  
Prerequisite: THE 212A with a minimum grade of C

THE-212C The Actor's Voice III  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will expand upon the skills developed in The Actor's Voice II. Students will attain mastery and consistency in the fundamental skills of relaxation, breath, resonance and articulation. Additionally, students in this class will perform dramatic material utilizing dialect and apply vocal techniques to classic and period texts.  
Prerequisite: THE 212B with a minimum grade of C

THE-214A Physical Theatre I  
1.0 Units / 3.0 hours LAB  
Credit course for grade or Pass/No Pass  
This course will explore the fundamentals of movement & physical techniques for actors. Topics covered will include foundational work of relaxation and presence onstage, flexibility and expressiveness of movement, and varieties and qualities of gesture.
THE-214B Physical Theatre II CSU, UC
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
The course will build upon the fundamentals of movement and physical techniques for actors addressed in Physical Theatre I. Topics covered will continued work on relaxation and presence, flexibility, expressiveness of movement, and varieties and qualities of gesture. It will also introduce physical techniques for the creation of character and story-telling.
Prerequisite: THE 214A with a minimum grade of C

THE-214C Physical Theatre III CSU, UC
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
The course will build upon the physical and movement techniques for actors addressed in Physical Theatre I and Physical Theatre II. Topics covered will include more advanced explorations of relaxation and presence, flexibility, expressiveness of movement, and varieties and qualities of gesture, as well as physical techniques for the creation of character and story-telling. This third-level class will also introduce practice in clowning and approaches to period movement and style. The class will culminate with ensemble creation of a devised physical theatre project.
Prerequisite: THE 214B with a minimum grade of C

THE-216A Stage Lighting I CSU, UC
3.0 Units / 2.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to basic concepts of stage lighting, including planning, rigging and operation of lighting systems. Students will become familiar with optics, equipment, electricity and color. Basic lighting design concepts will also be introduced. (C-ID THTR 173)
Recommended Preparation: MTH 79

THE-216B Stage Lighting II CSU, UC
3.0 Units / 2.0 hours LEC; 3.0 hours LAB
Credit course for letter grade only
This course will explore advanced lighting techniques for theatre, dance and music, through individual projects and participation in major productions and group projects. (C-ID THTR 173)
Prerequisite: THE 216A with a minimum grade of C

THE-217A Costume Construction I CSU, UC
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to the crafts of building and coordinating theatrical costumes. Techniques of basic pattern drafting, cutting and fitting will be applied through practical work on the theatre department's current production. Basic elements of costume design, including period history and style, color choices, and characterization are discussed as they relate to the play under construction. (C-ID THTR 174)

THE-217B Costume Construction II CSU, UC
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will enable students to further develop skills for building and coordinating theatrical costumes. Students will apply intermediate level techniques for pattern drafting, cutting and fitting through practical work on the theatre department's current production. Elements of costume design, including period style, color choices, and characterization will be discussed as they relate to the play under construction.
Prerequisite: THE 217A with a minimum grade of C

THE-217C Costume Construction III CSU, UC
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will provide an opportunity for advanced students to explore specialty arts and crafts of theatrical costuming. Advanced level costuming techniques, are applied through practical work on the theatre department's current production as well as through individually designed student projects.
Prerequisite: THE 217B with a minimum grade of C
THE-217D Introduction to Costume Design
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce students to fundamental theories and practices of costume design for theatre. Topics covered will include: script analysis, period research, conceptualization, rendering and effective collaboration. Students will complete individual design projects in addition to assignments supporting the department's current productions.
Prerequisite: THE 217C with a minimum grade of C
Limitation on Enrollment: A successful interview is required for placement in this course.

THE-219 Introduction to Directing
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This class will introduce fundamental principles of directing. Students will study and practice the directorial process including research, script analysis, conceptualization, casting and rehearsal techniques.
Recommended Preparation: THE 202 and THE 210B

THE-220A Acting Performance I
3.0 Units / 9.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for students to participate in a college production as a performing ensemble member of the cast. Students will develop fundamental rehearsal and performance techniques. All actors are required to audition for roles. (C-ID THTR 191)
Limitation on Enrollment: A successful audition is required.

THE-220B Acting Performance II
3.0 Units / 9.0 hours LAB
Credit course for grade or Pass / No Pass
This course will enable students to participate in a college production as a principal performing member of the cast. Students will investigate increasingly sophisticated ensemble and performance techniques as well as develop more advanced approaches to script analysis and characterization. A successful audition is required.
Prerequisite: THE 220A with a minimum grade of C
Limitation on Enrollment: A successful audition is required.

THE-220C Acting Performance III
3.0 Units / 9.0 hours LAB
Credit course for grade or Pass / No Pass
This course will allow students to perform in a college production in a demanding principal role. Students will apply increasingly advanced rehearsal and performance techniques to the study of characters of great complexity and depth. A successful audition is required.
Prerequisite: THE 220B with a minimum grade of C
Limitation on Enrollment: An audition is necessary to ensure that an appropriate role exists for each student in the production.

THE-220D Acting Performance IV
3.0 Units / 9.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for student actors to explore specific stylistic performance challenges, such as poetic text, operatic or musical roles, non-realistic performance styles, circus skills, mask work and others. Students will apply these advanced performance techniques as a principal actor in an appropriate college production. A successful audition is required.
Prerequisite: THE 220C with a minimum grade of C
Limitation on Enrollment: A successful audition is required.

THE-223 Salsa Rueda
1.0 Units / 0.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce students to Cuban style Salsa, which is danced in a circle. The leader calls different moves and the group simultaneously changes steps based on these calls. This class is for dancers of all levels with or without Salsa experience. No partner is necessary.
THE-224 Introduction to Playwriting                                                                                                                          CSU, UC
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will allow both beginning and experienced writers to explore the art of playwriting in a supportive, inquisitive environment. Through readings, writing exercises, and continual revision of our works-in-progress, we will explore how plays evolve from fledgling ideas to stage-ready scripts.

THE-225A Production Crew I                      CSU, UC, MC (C)
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for students to participate in a college production as a member of the technical crew. Students will focus on one or more of the following areas during the development of the play: scenery building and painting, stage lighting, make-up, costuming, stage operations, publicity, and/or house management. (C-ID THTR 192)
Limitation on Enrollment: Instructor approval required.

THE-225B Production Crew II                   CSU, UC
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for students to participate in a college production as a member of the technical crew or production staff at an intermediate level of responsibility. Students will focus on one or more of the following areas during the development of the play: scenery building and painting, stage lighting, make-up, costuming, stage operations, publicity, and/or house management. (C-ID THTR 192)
Prerequisite: THE 225A with a minimum grade of C
Limitation on Enrollment: Instructor approval required.

THE-225C Production Crew III                    CSU, UC
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for intermediate students to participate at a leadership level as members of the production crew of a college production. Students will focus on one or more of the following areas during the development of the play: scenery building and painting, stage lighting, make-up, costuming, stage operations, theatrical design, stage management, publicity, and/or house management. (C-ID THTR 192)
Prerequisite: THE 225B with a minimum grade of C
Limitation on Enrollment: Instructor approval required.

THE-225D Production Crew IV                   CSU, UC
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an opportunity for advanced technical production students to participate at a leadership level as members of the production crew, technical staff or design team of a college production. Students will focus on one or more of the following areas during the development of the play: scenery, lighting, make-up, costuming, stage operations, stage management, publicity, and/or house management.
Prerequisite: THE 225C with a minimum grade of C
Limitation on Enrollment: Instructor approval required.

THE-227A Hip Hop Dance: Beginning CSU, UC
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce students to the basic movements of Hip Hop dance with an emphasis on conditioning, simple rhythmic identification and basic technique.

THE-227B Hip Hop Dance: Intermediate CSU, UC
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide training in intermediate level Hip Hop dance technique with an emphasis on form, style and performance.
THE-228A Conditioning for Dance: Pilates Mat I
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide instruction in beginning Pilates mat work. This technique emphasizes exercises for improved movement memory, body alignment, strength, flexibility, control, coordination, breathing and introductory somatic awareness.

THE-228B Conditioning for Dance: Pilates Mat II
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide instruction in intermediate Pilates mat work, building upon the techniques developed in Pilates Mat I. This second-level course will emphasize exercises for improved movement memory, body alignment, strength, flexibility, control, coordination, breathing and deepening work in overall somatic awareness.
Prerequisite: THE 228A with a minimum grade of C

THE-228C Conditioning for Dance: Pilates Mat III
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide instruction in advanced-intermediate level Pilates mat work emphasizing exercises for improved movement memory, body alignment, strength, flexibility, control, coordination, and breathing. Somatic awareness will be integrated into the work on both a theoretical and a practical level. The class will also investigate the connection of Pilates training to performance as a dancer or actor.
Prerequisite: THE 228B with a minimum grade of C

THE-228D Conditioning for Dance: Pilates Mat IV
0.5 - 1.0 Units / 1.5 - 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide instruction in advanced level Pilates mat work emphasizing exercises for improved movement memory, body alignment, strength, flexibility, control, coordination, and breathing. Study of somatic awareness is integrated into all class work on both theoretical and practical levels. This course also connects the study of Pilates to the students’ work as dancers, singers and/or actors.
Prerequisite: THE 228D with a minimum grade of C

THE-230A Contemporary Dance: Beginning
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide the beginning student with training in a variety of contemporary dance techniques that will increase body awareness, strength, flexibility, control and coordination. The history of contemporary dance from its beginnings through the 1950's will be covered, focusing on key pioneers and how they helped shape dance in America in its formative years. Students will also explore dance as recreation, a social activity, a form of spiritual expression and as a theatrical art form.

THE-230B Contemporary Dance: Advanced Beginning
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide the advanced beginning student with continued training in a variety of contemporary dance techniques that will increase awareness, strength, flexibility, control and coordination. The history of contemporary dance from the 1960's to the present will be covered, focusing on key innovators of the time. Students will also explore how contemporary dance mirrors our society and societies around the world. Basic anatomy, as it pertains to dance, will be studied in the context of safe movement practices.

THE-230C Contemporary Dance: Intermediate
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide training in intermediate level skills in contemporary dance technique, with greater emphasis on the creative process and further development of the body as an instrument of communication. An introduction to dance composition and dance criticism are included in this course.
Recommended Preparation: THE 230A and/or THE 230B
THE-230D Contemporary Dance: Advanced Intermediate
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide the advanced intermediate student with continued training in contemporary dance
technique. Students will continue their exploration of the choreographic process including the fundamentals of music
and the concept of musicality in dance performance.
Recommended Preparation: THE 230C

THE-232 History of American Musical Theatre
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will explore the history of American musical theater from its roots in vaudeville, burlesque, minstrel
shows, revues, and operetta to shows currently running on Broadway. Major songwriters, performers, producers,
choreographers, and directors will be discussed along with the landmark musicals that have shaped American
musical theater. The impact of culture on musical theater will include discussions of emerging technologies, changing
patterns of immigration, economic cycles, wars, and human rights.

THE-233 Musical Theatre Acting Workshop
3.0 Units / 2.5 hours LEC; 1.5 hours LAB
Credit course for grade or Pass / No Pass
This course will explore the fundamentals of singing while acting, and acting while singing. Emphasis is placed on
expressing character and dramatic content through solo, and small ensemble performance.

THE-235 Introduction to Scenic Design
3.0 Units / 3.0 hours LEC
Credit course for grade or Pass / No Pass
This course will provide an introduction to the basic techniques used in scenic design for live performance with
emphasis on the art of scenic design through drafting techniques, model making, ground plans, as well as script
analysis for the practical application of these skills.
Recommended Preparation: THE 200 and THE 208A

THE-236A Yoga: Beginning
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will build and maintain balance, flexibility and strength through postures, exercises and breathing
techniques. Sequences will provide a methodical way for the student to condition the body and calm the mind.

THE-236B Yoga: Advanced Beginning
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will build and maintain balance, flexibility and strength through postures, exercises and breathing
techniques, at a beginning intermediate level. Sequences will provide a methodical way for the student to continue
on conditioning the body and calm the mind.
Prerequisite: THE 236A

THE-238E Jazz Dance: Beginning
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide the beginning student with training in a variety of jazz dance techniques that will increase body
awareness, strength, flexibility, control and coordination. The history of jazz dance from its beginnings through the
1940's will be covered, focusing on key pioneers, styles and social dance forms that were influential during this time.

THE-238F Jazz Dance: Advanced Beginning
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide the advanced beginning student with continued training in a variety of jazz dance techniques
that will increase body awareness, strength, flexibility, control and coordination. The history of jazz dance in the 1950's
and 60's will be covered, focusing on key pioneers, styles and social dance forms that were influential during this time.
Recommended Preparation: THE 238E
THE-238G Jazz Dance: Intermediate
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide training in intermediate level skills in jazz dance technique, with greater emphasis on the creative process and further development of the body as an instrument of expression. The history of jazz dance in the 1970's and 80's will be covered, focusing on key pioneers, styles and social dance forms that were influential during this time. An introduction to dance composition and dance criticism is included in this course. Recommended Preparation: THE 238F

THE-238H Jazz Dance: Advanced Intermediate
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide the advanced intermediate student with continued training in jazz dance technique. The history of jazz dance in the 1990's through the present will be covered, focusing on key pioneers, styles and social dance forms that were and are influential during this time. Students will continue their exploration of the choreographic process including the fundamentals of music and the concept of musicality in dance performance. Recommended Preparation: THE 238G

THE-242A Ballet: Beginning
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce the beginning student to the fundamentals of ballet technique; basic positions, body placement, barre exercises, and combinations essential to the development of the ballet dancer. The history of ballet, from its beginnings through the Romantic Era, will be covered.

THE-242B Ballet: Advanced Beginning
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide the advanced beginning student with continued training in ballet technique, emphasizing proper body alignment; increased flexibility and fluidity. The classical period in the history of ballet will be studied focusing on the contributions of Russian ballet innovators in the mid-19th century into the early 20th century. Recommended Preparation: THE 242A

THE-242C Ballet: Intermediate
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This course will develop intermediate level skills and techniques within the discipline of classical ballet, with continued emphasis on body placement as well as adagio and allegro phrases. Students will be introduced to the basic concepts of dance composition and will explore the history of ballet in the early to the middle part of the 20th century. Recommended Preparation: THE 242A and/or THE 242B

THE-242D Ballet: Advanced Intermediate
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass / No Pass
This class will develop advanced intermediate skills and techniques in ballet with an emphasis on developing physical virtuosity and artistic expression through the execution of classical and contemporary ballet variations. Students will be introduced to the basic concepts of dance critique and will explore the evolution of ballet from the later part of the 20th century to the present. Recommended Preparation: THE 242C

THE-244A Mexican Folkloric Dance: Beginning
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce students to folk dances from various regions in Mexico. Students will learn various expressive dances covering basic Mexican folk dance technique, movement sequences, body alignment, and choreography.
THE-244B Mexican Folkloric Dance: Intermediate Technique & Performance
CSU, UC
1.0 - 2.0 Units / 3.0 - 6.0 hours LAB
Credit course for grade or Pass/No Pass
This course will provide students with the technical skills to perform Ballet Folklorico. Students will learn intermediate level dance techniques and various dances representing a variety of regions from Mexico, as well as body alignment, choreography and costuming techniques.

THE-247A Social Dance Forms: Beginning
CSU, UC
1.0 Units / 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to a variety of social dance forms. Students will learn vocabulary and movements for such elementary level partner dances as the waltz, fox-trot, swing, cha-cha, tango, jitterbug and salsa. Historical perspectives of these dance forms will be discussed.

THE-250A Choreography: Introduction
CSU (CI), UC
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to the basic choreographic theory and practice of dance composition in relation to design, dynamics, rhythm, theme, style, and musicality.
Recommended Preparation: THE 230A

THE-250B Choreography: Solos
CSU, UC
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to the basic and intermediate choreographic theory and practice of dance composition for a single solo dancer, in relation to design, dynamics, rhythm, theme, style, and musicality.
Prerequisite: THE 250A
Recommended Preparation: THE 230A

THE-250C Choreography: Groups
CSU, UC
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to the basic and intermediate choreographic theory and practice of dance composition for a group of dancers, in relation to design, dynamics, rhythm, theme, style, and musicality.
Prerequisite: THE 250B
Recommended Preparation: THE 230A

THE-250D Choreography: Site-Specific and Intermediate
CSU, UC
2.0 Units / 1.0 hours LEC; 3.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to the basic choreographic theory and practice of dance choreography for site-specific and intermediate compositions in relation to design, dynamics, rhythm, theme, style, and musicality.
Prerequisite: THE 250C
Recommended Preparation: THE 230A

THE-260 Dance Performance
CSU, UC
1.0 - 3.0 Units / 3.0 - 9.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to the theory and practice of performing in a dance production. Students will learn performance techniques that will help them obtain confidence and greater skill level as a performing artist.

THE-262 Dance for Musical Theatre
CSU, UC
1.0 - 3.0 Units / 3.0 - 9.0 hours LAB
Credit course for grade or Pass/No Pass
This course will introduce students to the theory and practice of performing dance in a musical theater production. Students will learn performance techniques that will help them obtain confidence and greater skill as a performing musical theater artist.
THE-265A Dance Repertory: Apprentice I
1.0 - 3.0 Units / 3.0 - 9.0 hours LAB
Credit course for grade or Pass / No Pass
This course will give students an opportunity to understudy and learn basics of performance. Perform, in a limited way, in a dance performance. Students will gain experience with the audition process; how to prepare for an audition and be successful.
Recommended Preparation: THE 230A
Limitation on Enrollment: Instructor permission required. Retention based on successful audition.

THE-265B Dance Repertory: Apprentice II
1.0 - 3.0 Units / 3.0 - 9.0 hours LAB
Credit course for grade or Pass / No Pass
This course will give students an opportunity to understudy, assist choreographer(s) and learn intricacies of a dance company. Perform, in a limited way, in a dance performance. Students will gain experience with the audition process; how to prepare for a performance and be successful.
Recommended Preparation: THE 250A Prerequisite: THE 265A
Limitation on Enrollment: Instructor permission required. Retention based on successful audition.

THE-265C Dance Repertory I
1.0 - 3.0 Units / 3.0 - 9.0 hours LAB
Credit course for grade or Pass / No Pass
This course will give students an opportunity to participate in a dance company, to dance professional choreography and perform dances in a production. Students will learn and engage in the practicalities of how to produce a dance performance.
Prerequisite: THE 265B Limitation on Enrollment: Instructor permission required. Retention based on successful audition.

THE-265D Dance Repertory II
1.0 - 3.0 Units / 3.0 - 9.0 hours LAB
Credit course for grade or Pass / No Pass
This course will give students an opportunity to participate in a dance company, to dance professional choreography, assist with choreography and perform advance dances in a production. Students will learn and engage in the practicalities of how to produce a professional dance performance.
Prerequisite: THE 265C
Limitation on Enrollment: Instructor permission required. Retention based on successful audition.

THE-268 Dance Rehearsal
0.5 - 2.0 Units / 1.5 - 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide students with an opportunity to develop a variety of rehearsal skills in preparation for a dance performance.

WELDING

WLD-61 Beginning Welding
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce students to welding technology and terminology as well as begin students on the development of the manual skill necessary to perform shielded metal arc and oxyacetylene welding and cutting in the flat and horizontal positions. All aspects of safety in the welding shop will be emphasized.

WLD-62 Intermediate Welding
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will require students to perform welds in positions other than in the flat position. The content will enhance the ability of the students to perform welds out of position. The course includes welding safety, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), plasma arc cutting (PAC), air carbon arc cutting and gouging (CAC-A) welding and cutting processes. These welds will be performed in the flat, horizontal, vertical, and overhead positions. It will also include base metal, shielded metal arc welding electrodes, joint fit-up and alignment, groove welds with backing, and open V-groove welds. All welds will meet the American Welding Society (AWS) qualification standards.
Recommended Preparation: WLD 61
WLD-65 Beginning Gas Tungsten Arc Welding
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will cover the technical understanding of Gas Tungsten Arc Welding (GTAW) fundamentals, arc characteristics, and welding safety. Development of the manual skills necessary to make high quality gas tungsten arc welds in all positions on mild steel, stainless steel, and aluminum will be covered.

WLD-70 Beginning Gas Metal Arc Welding
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will include the technical understanding of Gas Metal Arc Welding (GMAW) fundamentals, arc characteristics and welding safety. Development of the manual skills necessary to make high quality gas metal arc welds in all positions on mild steel will be included.

WLD-71 Advanced Gas Metal Arc Welding
3.0 Units / 1.5 hours LEC; 4.5 hours LAB
Credit course for grade or Pass / No Pass
This course will include a technical understanding of Gas Metal Arc Welding (MIG) fundamentals, using spray and short circuiting mode. Continued development of the manual skills necessary to make high quality gas metal arc welds in all positions on aluminum, carbon and stainless steel is also covered.
Recommended Preparation: WLD 70 with a minimum grade of C

WLD-199 Independent Study          CSU
0.5 - 4.0 Units / 1.5 - 12.0 hours LAB
Credit course for grade or Pass / No Pass
This course will enable students to explore areas of interest independent of the usual instructional setting. Student and instructor agree upon a program of study, research, reading or activity which is individually tailored to the needs and interests of the student and which is outlined in an Independent Study Proposal. Units are earned based on satisfactory performance and completion of 48 hours of coursework per unit.
Limitation on Enrollment: The student must be enrolled and must have completed a minimum of 12 units of college work with a grade point average of 3.0 or better - The Independent Studies Proposal must be approved by the discipline instructor, area Dean, Director of Admissions and Records, and VP of Academic Affairs.

WOODWORKING

WOD-70A Introduction to Woodworking
3.0 Units / 1.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will provide an introduction to the craft of woodworking for domestic furniture. Topics include the safe use of power equipment and hand tools, lumber selection and milling, joinery, assembly and finishing.
Recommended Preparation: MTH 79

WOD-70B Introduction to Woodworking II
3.0 Units / 1.0 hours LEC; 6.0 hours LAB
Credit course for grade or Pass / No Pass
This course will continue instruction in the craft of woodworking begun in WOD70A. Topics include the safe use of power equipment and hand tools, basic casework, methods, layout and joinery, assembly and finishing.
Prerequisite: WOD 70A with a minimum grade of C

WOD-80A Fine Woodworking: Theory and Practice I
18.0 Units / 3.0 hours LEC; 45.0 hours LAB
Credit course for grade or Pass / No Pass
This course will introduce the student to the principles and practices of traditional and contemporary cabinetmaking. Topics will include refinements in the use of joinery, tools, and the elements of design. Students will incorporate these into individual projects.
Limitation on Enrollment: Acceptance into the Mendocino College Fine Woodworking Program
WOD-80B Fine Woodworking: Theory and Practice II
18.0 Units / 3.0 hours LEC; 45.0 hours LAB
Credit course for grade or Pass/No Pass
This class will build on the material in WOD 80A. Students will have the opportunity to learn and apply fundamental furniture-making skills and to improve and strengthen their existing skills through different applications. A survey of the aesthetics of project design, construction procedures, and advanced techniques will be presented.
Prerequisite: WOD 80A with a minimum grade of C

WOD-81A Fine Woodworking: Special Studies in Cabinet Making I
16.0 Units / 48.0 hours LAB
Credit course for grade or Pass/No Pass
This course will act as the first in a series of courses of individual study in advanced cabinetmaking. Course hours are divided among in-depth study of the technical and aesthetic aspects of cabinetmaking, machine techniques, and hand tool methods related to excellence in woodworking. Students will create fine furniture that combines personal expression with function and is pleasing and proper. Students will plan and stage a fine furniture exhibition.
Prerequisite: WOD 80B with a minimum grade of C

WOD-81B Fine Woodworking: Advanced Special Studies in Cabinet Making
16.0 Units / 48.0 hours LAB
Credit course for grade or Pass/No Pass
This course will act as the second in a series of courses of individual study in advanced cabinetmaking. Course hours are divided among in-depth study of the technical and aesthetic aspects of cabinetmaking, machine techniques, and hand tool methods related to excellence in woodworking. Students will independently design and create fine furniture that combines personal expression with function and is pleasing and proper. Students will plan and stage a fine furniture exhibition.
Prerequisite: WOD 81A with a minimum grade of C

WOD-98.1 Intermediate Woodworking
12.5 Units / 2.0 hours LEC; 32.0 hours LAB
Credit course for grade or Pass / No Pass
This class will introduce advanced techniques beyond the use of solid wood, specifically veneering, bent lamination, and glass in cabinet construction. Students will have the opportunity to learn and apply these techniques in a project, and to improve and strengthen their existing skills.
Prerequisite: WOD 70B