

San Joaquin Delta College Catalog 99 - 00

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Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the French language and French culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of FREN 51 and FREN 52 are equivalent to FREN 1. (UC, CSU, CAN FREN 2 with both FREN 51 and 52, CAN FREN Seq A with FREN 51, 52, 53, and 54)

FREN 52 Elementary French Units 2.5

Prerequisites: Successful completion of FREN 51.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the French language and French culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of FREN 51 and 52 are equivalent to FREN 1. (UC, CSU, CAN FREN 2 with both FREN 51 and 52, CAN FREN Seq A with FREN 51, 52, 53, and 54)

FREN 53 Elementary French Units 2.5

Prerequisites: Successful completion of FREN 1 or 52.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the French language and French culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of FREN 53 and 54 are equivalent to FREN 2. (UC, CSU, CAN FREN 4 with both FREN 53 and 54, CAN FREN Seq A with FREN 51, 52, 53, and 54)

FREN 54 Elementary French Units 2.5

Prerequisites: Successful completion of FREN 53.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the French language and French culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of FREN 53 and 54 are equivalent to FREN 2. (UC, CSU, CAN FREN 4 with both FREN 53 and 54, CAN FREN Seq A with FREN 51, 52, 53, and 54)

GEOGRAPHY

GEOG 1 Physical Geography Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed as a study of the natural environment. Individual topics include maps, time zones, seasons, weather, climate, the hydrologic cycle, natural vegetation, soils and landforms. (UC, CSU, CAN GEOG 2, CAN GEOG 6 with both GEOG 1 and GEOG 1L)

GEOG 1L Physical Geography Laboratory Units 1

Prerequisites: Reading level II; GEOG 1 or concurrent enrollment in

GEOG 1.

Limitations on Enrollment: None.

Advisories: None.

This course is designed as a series of laboratory exercises involving weather, climate and landforms with emphasis on problem solving,

map reading and landscape interpretation. The course correlates with topics from Physical Geography. Physical Geography Laboratory plus Physical Geography satisfies the laboratory science requirements for general education. (UC, CSU, CAN GEOG 6 with both GEOG 1 and GEOG 1L)

GEOG 2 Cultural Geography Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed as a systematic review of the major topics in human geography: population, culture, (race, language, religion, music), economic activities, settlement patterns, including urbanization, and political geography. (UC, CSU, CAN GEOG 4)

GEOG 10 World Regional Geography Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to survey the physical, cultural, and economic geography of the world's regions: Europe, Asia, Africa the Americas, and Oceania using a regional geographic approach. Current events and regional problems are examined. (UC, CSU)

GEOG 50H Special Studies: Geography Units 1-2

Prerequisites: Completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide research opportunity for advanced students. Topics must be approved by the geography staff and the division chairperson. The course may be repeated for a maximum of four units. (UC, CSU)

GEOLOGY

GEOG 1A Physical Geology Units 4

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce students to the composition, structure, and surface features of Earth. The processes of building up Earth and of those destroying it are studied. (UC, CSU, CAN GEOL 2)

GEOG 10 General Geology Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to earth materials, processes involved in the development of land forms, a brief survey of the history of earth is included. (UC, CSU)

GEOG 50H Special Studies: Geology Units 1-2

Prerequisites: Completion of survey course with grade of "B" or bet-

ter and presentation of a project acceptable to the instructor and division chairperson.

Limitations on Enrollment: None.

Advisories: None.

This course is open to all students qualified to do advanced work in the field. A course project is assigned which may include research, field work, or other advanced study, and the course may be repeated for a maximum of four units. (UC, CSU)

GERMAN

GERM 1 Elementary German Units 5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the German language and German cultures. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. (UC, CSU, CAN GERM 2, CAN GERM Seq A with GERM 1 and 2)

GERM 2 Elementary German Units 5

Prerequisites: Successful completion of GERM 1 or 52.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the German language and German cultures. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. (UC, CSU, CAN GERM 4, CAN GERM Seq A with GERM 1 and 2)

GERM 3 Intermediate German Units 5

Prerequisites: Successful completion of GERM 2 or 54.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer continued study of the German language and German cultures. Efforts to improve reading and composition skills are based on both contemporary and traditional selection. (UC, CSU, CAN GERM 8, CAN GERM SEQ B with both GERM 3 and 4)

GERM 4 Intermediate German Units 5

Prerequisites: Successful completion of GERM 3.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer continued study of the German language and German cultures. Efforts to improve reading and composition skills are based on both contemporary and traditional selection. (UC, CSU, CAN GERM 10, CAN GERM SEQ B with both GERM 3 and 4)

GERM 36A Introductory German Conversation Units 2

Prerequisites: Successful completion of GERM 1 or GERM 51.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to strengthen fundamental communication patterns based on typical daily situations. (CSU)

GERM 36B Beginning German Conversation Units 2

Prerequisites: Successful completion of GERM 2 or 53.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to achieve conversational ability based on typical daily situations. (CSU)

GERM 38A Special Assignment: Listening Units 2

Prerequisites: Concurrent enrollment in or completion of GERM 1 or GERM 51.

Limitations on Enrollment: None.

Advisories: None.

This course is a skill-building course with an emphasis on listening. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

GERM 38B Special Assignment: Pronunciation Units 2

Prerequisites: Concurrent enrollment in or completion of GERM 1 or GERM 51.

Limitations on Enrollment: None.

Advisories: None.

This is a skill-building course with an emphasis on pronunciation. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

GERM 38C Special Assignment: Reading Units 2

Prerequisites: Concurrent enrollment in or completion of GERM 1 or GERM 51.

Limitations on Enrollment: None.

Advisories: None.

This is a skill-building course with an emphasis on reading. The course is designed to meet the special needs of students. This course is offered for individual or group study. (CSU)

GERM 38D Special Assignment: Writing Units 2

Prerequisites: Concurrent enrollment in or completion of GERM 1 or GERM 51.

Limitations on Enrollment: None.

Advisories: None.

This is a skill-building course with an emphasis on writing. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

GERM 50H Special Studies: German Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; GERM 4 with a grade of "B" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to allow students to do advanced work in the language. The course includes research, directed reading, field work, or other advanced study. The course may be repeated for a maximum of four units. (UC, CSU)

GERM 51 Elementary German Units 2.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the German language and German culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of GERM 51 and 52 are equivalent to GERM 1. (UC, CSU, CAN GERM 2 with both GERM 51 and 52, CAN GERM SEQ A with GERM 51, 52, 53, and 54)

GERM 52 Elementary German Units 2.5

Prerequisites: Successful completion of GERM 51.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the German language and German culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of GERM 51 and 52 are equivalent to GERM 1. (UC, CSU, CAN GERM 2 with both GERM 51 and 52, CAN GERM Seq A with GERM 51, 52, 53, and 54)

GERM 53 Elementary German Units 2.5

Prerequisites: Successful completion of GERM 1 or 52.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the German language and German culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing.. The combined five units of GERM 53 and 54 are equivalent to GERM 2. (UC, CSU, CAN GERM 4 with both GERM 53 and 54, CAN GERM Seq A with GERM 51, 52, 53, and 54)

GERM 54 Elementary German Units 2.5

Prerequisites: Successful completion of GERM 53.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the German Language and German culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of GERM 53 and 54 are equivalent to GERM 2. (UC, CSU, CAN GERM 4 with both GERM 53 and 54, CAN GERM Seq A with GERM 51, 52, 53, and 54)

GREEK

GREEK 1 Elementary Greek Units 5

Prerequisites: None. Limitation on Enrollment: None.

Advisories: None.

This course is an introduction to the Greek language and Greek cultures. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. (CSU).

GREEK 2 Elementary Greek Units 5

Prerequisites: Successful completion of GREEK 1 or 52.

Limitation on Enrollment: None.

Advisories: None.

This course is an introduction to the Greek language and Greek cultures. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. (CSU)

GREEK 3 Intermediate Greek Units 5

Prerequisites: Successful completion of GREEK 2 or 54.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to offer continued study of the Greek language and Greek cultures. Efforts to improve reading and composition skills are based on both contemporary and traditional selection. (CSU)

GREEK 4 Intermediate Greek Units 5

Prerequisites: Successful completion of GREEK 3.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to offer continued study of the Greek language and Greek cultures. Efforts to improve reading and composition skills are based on both contemporary and traditional selection. (CSU)

GREEK 36A Introductory Greek Conversation Units 2

Prerequisites: Successful completion of GREEK 1 or GREEK 51.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to strengthen fundamental communication patterns based on typical daily situations. (CSU)

GREEK 36B Beginning Greek Conversation Units 2

Prerequisites: Concurrent enrollment in or successful completion of GREEK 2 or 53..

Limitation on Enrollment: None.

Advisories: None.

This course is designed to achieve conversational ability based on typical daily situations. (CSU)

GREEK 38A Special Assignment: Listening Units 2

Prerequisites: Concurrent enrollment in or successful completion of GREEK 1 or GREEK 51.

Limitation on Enrollment: None.

Advisories: None.

This is a skill-building course with an emphasis on listening. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

GREEK 38B Special Assignment: Pronunciation Units 2

Prerequisites: Concurrent enrollment in or completion of GREEK 1 or GREEK 51.

Limitation on Enrollment: None.

Advisories: None.

This is a skill-building course with an emphasis on pronunciation. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

GREEK 38C Special Assignment: Reading Units 2

Prerequisites: Concurrent enrollment in or completion of GREEK 1 or GREEK 51.

Limitations on Enrollment: None.

Advisories: None.

This course is a skill-building course with an emphasis on reading. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

GREEK 38D Special Assignment: Writing Units 2

Prerequisites: Concurrent enrollment in or completion of GREEK 1 or GREEK 51.

Limitations on Enrollment: None.

Advisories: None.

This course is a skill-building course with an emphasis on writing. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

GREEK 51 Elementary Greek Units 2.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Greek language and Greek culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of GREEK 51 and 52 are equivalent to GREEK 1. (UC, CSU)

GREEK 52 Elementary Greek Units 2.5

Prerequisites: Successful completion of GREEK 51.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Greek language and Greek culture. Emphasis is placed the following skills in the order given: listening, speaking, reading, and writing. The combined five units of GREEK 51 and 52 are equivalent GREEK 1. (UC, CSU)

GREEK 53 Elementary Greek Units 2.5

Prerequisites: Successful completion of GREEK 1 or 52.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Greek language and Greek culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of GREEK 53 and 54 are equivalent to GREEK 2. (UC, CSU)

GREEK 54 Elementary Greek Units 2.5

Prerequisites: Successful completion of GREEK 53.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Greek language and Greek culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units in GREEK 53 and 54 are equivalent to GREEK 2. (UC, CSU)

GUIDANCE

GUID 1 Enhancing Self-Esteem, Cultural Awareness, and College Success Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enable students to focus on the continued development of self-esteem and personal responsibility leading to college success. Discussion of cultural awareness and cultural diversity is included. (CSU)

GUID 2A Peer Advisor Training Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide peer advisors with the necessary knowledge and skills to interact effectively with targeted populations. Skills include, but are not limited to, advising current and

potential students, processing student applications, and providing operational support to a specific program. (CSU)

GUID 10 Orientation to College Units 1

Prerequisites: Not open to students who have completed GUID 11A and GUID 11B.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for all newly entering and re-entry students. The course provides orientation, counseling, and advisement. The course assists students in the development of an educational plan through individual and group counseling. GUID 10 is equivalent to the combined courses of GUID 11A and GUID 11B. (CSU)

GUID 10E Extended Activities Units 0.5-2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a series of presentations on timely topics ranging from one hour to eight hours in duration. Credit may be earned by attending a minimum of eight activity hours. A half unit of credit is given for each block of eight activity hours for a maximum total of two units. (CSU)

GUID 11A Orientation to College Units 0.5

Prerequisites: Not open to students who have completed GUID 10.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for all newly entering and re-entry students. The course provides orientation, counseling, and advisement. The course assists students in researching and defining educational goals through individual and group counseling. The combination of GUID 11A and GUID 11B is equivalent to GUID 10. (CSU)

GUID 12 Education and Interpersonal Growth Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a planned instructional program to study the impact of values in decision making, self-awareness, changing lifestyles, and patterns of communication have upon educational growth while pursuing a career or vocation. The study of the relevant significance the educational contract has upon educational competency is discussed also. (CSU)

GUID 14 Orientation for Student Athletes Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for all entering students participating in intercollegiate sports. The course provides college orientation, counseling and advisement, and information on National Collegiate Athletic Association eligibility. Student athletes develop a Student Education Plan (SEP) through individual and group counseling. (CSU)

GUID 15 Selected Topics: Guidance Units 1-2

Prerequisites: Reading level II or concurrent enrollment in reading.

Limitations on Enrollment: None.

Advisories: None.

This course is a concentrated study of a specific topic in guidance and counseling. Course requirements include a written report and, or a final examination. (CSU)

GUID 16 Orientation for International Units 1

Students

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for all entering international students. The course acquaints students with the college, curriculum, facilities, services, academic regulations, vocational and certificate programs, degree, and transfer requirements. Information is provided concerning extra-curricular activities, personal adjustment, American customs, culture shock and survival techniques, and immigration regulations. (CSU)

GUID 17 People in Transition Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide orientation, counseling information, and support to re-entry students whose formal education has been interrupted by family and, or job responsibilities. The course topics include building self-esteem, becoming more assertive, identifying values, skills and interests, and planning a career. (CSU)

GUID 18A Single Parents as Students: Codependency Issues Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for Extended Opportunities Programs and Services (EOPS) students enrolled in Cooperative Agencies Resources for Education (CARE). The goal of this course is to provide orientation, self-awareness and support to Aid to Families with Dependent Children (AFDC) and single parents wishing to gain independence through education. (CSU)

GUID 30 Career Self Assessment Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the career life planning process and concentrates on the first major step which is self assessment. Students explore career choices by identifying their strengths, skills, interests, values, and preferred lifestyle. (CSU)

GUID 31 Career Exploration Units 1

Prerequisites: GUID 30 recommended.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to allow students to explore specific occupations of their choice through utilization of career center resources. The course includes investigation of job duties, training and educational requirements, desired employee characteristics, salary ranges, and future employment trends through printed and audio visual media. (CSU)

GUID 32 Career Information Interviewing Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to assist students to learn to obtain career information directly from people employed in areas of their career interest through an organized interviewing process. The course includes information on how to make the initial contact, interviewing question preparation, and how to analyze information obtained.

(CSU)

GUID 33 Job Seeking Skills Units 1

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to assist students with development of successful job search techniques, resume writing, and job interviewing skills. The course includes techniques on how to find and how to get the job you want, and information of the hidden job market. (CSU)

GUID 71D Student Leadership: Day Student Government Units 1-3

Prerequisites: To qualify for registration a student must be a member of the Day Student Government.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide a survey of the theory and practice of parliamentary law, committee techniques, and democratic organization. Students will study some of the factors of successful leadership and effective group membership. Participation in student organization events such as lectures, leadership workshops, and conferences, is required.

GUID 80 Success in College Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a group counseling course designed to assist students who have academic difficulties to develop the necessary skills to succeed in college. The focus of the course is to provide information on practical strategies for achieving personal, educational, and career goals. The course is intended for students who have been dismissed from college, but who wish to continue their education at this college. This course is a requirement for dismissed students who wish to enroll in any other courses.

HEALTH EDUCATION

H ED 1 Health Education Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enhance students' knowledge in a variety of health related areas and to increase their motivation and desire to take personal responsibility to achieve high level wellness. (UC, CSU)

H ED 15 Selected Topics: Health Education Units 1-2

Prerequisites: Reading level II or concurrent enrollment in reading.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer instruction in one of the specialized areas of health education not already covered by existing curricula. (CSU)

H ED 28 Community Health Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to study health related services and resources available in the college district and how they impact on current health issues and problems faced by the populace of the district. Particular emphasis is placed on substance abuse, mental health, AIDS, child abuse, HMOs (Health Maintenance Organizations), nontraditional medical treatment, family wellness, and cancer. (UC, CSU)

H ED 30 Community First Aid and Safety Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is the American National Red Cross course, Community First Aid and Safety. Students receive the Community First Aid and Safety and Community CPR certificates upon successful completion of the course. The course may be repeated for credit once every three years. (UC, CSU)

H ED 31 Emergency Response Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is the American Red Cross course, Emergency Response. Those who qualify receive the American Red Cross Emergency Response and CPR for the Professional Rescuer certificates. The course may be repeated for credit once every three years. (CSU)

H ED 32 Cardiopulmonary Resuscitation (CPR) Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to prepare participants, through knowledge and skill development, to meet the needs of most situations in which emergency first aid care for cardiopulmonary resuscitation is needed and medical assistance is not excessively delayed. The course may be repeated for credit once per year. This is an open entry, open exit course. (CSU)

H ED 50H Special Studies: Health Education Units 1-2

Prerequisites: Completion of survey course with a grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.

Limitations on Enrollment: None.

Advisories: None.

This course is open to all students qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (CSU)

H ED 80 Selected Topics: Health Education Units 0.5-2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer instruction in one of the specialized areas of Health Education not already covered by existing curriculum.

HEALTH SCIENCE

H S 11 Selected Topics: Health Science Units 1-2

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer instruction in one of the specialized areas of Health Science not covered by existing curricula. (CSU)

H S 19 Human Development Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to integrate the biological, cognitive, and psychosocial aspects of human development throughout the lifespan. The course is a study of the developmental tasks facing individuals at various points in the life cycle and the ways social interaction and cultural institutions shape the development of the individual. It is designed as a foundation course for careers in educational, social service, psychological, and health fields. (CSU)

H S 34A Basic Electrocardiograph Reading Units 1

Prerequisites: Certification, licensure or employment in health care area.

Limitations on Enrollment: None.

Advisories: None.

This course is an elementary course designed to introduce the basic concepts related to electrocardiography, such as the pertinent anatomy and physiology of the cardiovascular system, the systemic interpretation of tracings, and the recognition of normal and abnormal cardiac rhythms. (CSU)

H S 36 Medical Terminology and Speech Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop a basic medical vocabulary. Emphasis is placed on roots, prefixes, and suffixes that form medical terms. Basic anatomy and physiology are presented as each body system is introduced. (CSU)

H S 39 Survey of Health Careers Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey course designed to provide information about a variety of health careers. The course also introduces students to concepts which must be understood before engaging in the helping process. This course also assists students to identify strengths or weaknesses affecting admission into the health professions. Job functions, education and training, and employment opportunities are also included. (CSU)

H S 43 Nursing Synthesis Units 3

Prerequisites: Licensed Vocational Nurse.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for licensed vocational nurses and psychiatric technicians preparing to enter the third semester nursing courses, consisting of nursing topics not covered in their LVN curriculum such as nursing process, therapeutic communication, role changes, decision making, as well as updating cognitive motor skills for nursing practice. (CSU)

H S 61 Intravenous Therapy for Health Care Providers Units 1.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide learning experiences related to intravenous therapy for licensed health care providers and students in health services who may be required to have completed an intravenous tuberculin course for employment. This group may include registered nurses, licensed vocational nurses, and emergency medical technicians. The course meets the requirements for the licensed vocational nurse state certification in intravenous tuberculin. (CSU)

H S 70 Nurse Assistant Training Units 5

Prerequisites: None; exempt from assessment.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to prepare students to qualify for certification as a nurse assistant. The course's content follows the statewide approved curriculum designed to meet both federal and state regulations. The course focuses on the more common physical and psychological conditions found in the elderly and the nursing approaches to care of the elderly.

H S 71 Home Health Aide Units 2

Prerequisites: None.

Limitations on Enrollment: Possess Nurse Assistant Certification or be enrolled in Nursing Assistant Program.

This course is designed to prepare the student to be a certified home health aide. The content follows the approved curriculum specific to federal and California state training regulations. The focus of this course is on the entry-level skills needed for employment as a home health aide.

H S 72A Care Provider Training: Mental Disabilities Units 1

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is for residential care home providers which is designed as an introductory course covering basic information of mental disabilities. Course topics include an overview of mental health care systems, symptoms, classifications of mental illness, etiology, treatment, mental health laws including client's bill of rights, hospital admissions, records, and county conservatorship. Units earned in this course do not count toward an associate degree.

H S 72B Care Provider Training: Psychotropic Medication Units 1

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is for the development of basic medical vocabulary and an increased understanding of the psychotropic medications administered to mental patients and the effects of these medications on modifying psychotic activity or behavior. Selected modalities include major classifications, beneficial effects of medications, side

effects and toxic reactions, dispensation of medication, and an elementary review of drug abuse as confined to "pot smoking" and "pill popping." Units earned in this course do not count toward an associate degree.

H S 72C Care Provider Training: Behavior Management Units 1

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to examine various behavior intervention techniques including working with the difficult resident, recognizing decompensated behaviors, reducing problem behavior, communications skills, and behavior modification through positive reinforcement. Units earned this course do not count toward an associate degree.

H S 72D Care Provider Training: Normalization Units 1

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to help care providers examine and become more aware of their attitudes toward mentally disabled residents through understanding of their individual differences and giving them techniques in increasing self-sufficiency and ways they can provide normalization experiences. Units earned in this course do not count toward an associate degree.

H S 72E Care Provider Training: Pre-Independent Living Units 1

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course provides training in helping the client develop independent living skills by motivating the resident toward independency in hygiene, social skills and manners, care of clothing, use of public transportation, meal preparation, and shopping. The course also examines vocational opportunities and socialization. Units earned in this course do not count toward an associate degree.

H S 72F Care Provider Training: Community Resources Units 1

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to familiarize careproviders with available community resources to utilize in helping them assess the social, emotional, and physical needs of the residents. Selected topics include group behavior, leadership skills, components of program operation, factors affecting patient participation, motivation, developing independent and group programs in the home. Units earned in this course do not count toward an associate degree.

H S 72G Care Provider Training: Recognizing other Problems Units 1

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course provides for the study of problems and needs of the aged client, reality orientation, death and dying. The course examines several behaviors and physical illnesses dealing with hearing, visual and speech impairments, seizure disorders, and physical handicaps. Units earned in this course do not count toward the associate degree.

H S 72H Care Provider Training: Client Record Keeping Units 1

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is an implementation of a problem oriented record-keeping system setting realistic goals and objectives, familiarization with forms, bookkeeping, protection for liability, medical ethics, and state regulations. Units earned in this course do not toward the associate degree.

H S 72I Care Provider Training: Nutrition Units 1

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to include topics of basic food categories, meal planning and preparation, special diets, snacks, holidays and special occasions, meeting residents' food preferences, serving attractive meals, and maintaining safe and sanitary conditions. Units earned in this course do not count toward the associate degree.

H S 75 First Responder Units 1.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for emergency personnel who routinely respond to medical emergencies to provide treatment and support to sick or injured individuals until emergency medical services (EMS) support arrives. Topics will include cardiac pulmonary resuscitation (CPR), cardiac and respiratory management, bleeding control, child-birth, splinting for fractures, and procedures for environmental emergencies (i.e., burns, drownings, hypothermia, poisoning, etc). Prior to completing this course, the student must provide proof of current CPR certification at health care provider level. This course meets San Joaquin County requirements for First Responder.

H S 76 First Responder Refresher Units 1

Prerequisites: Exempt from assessment; current First Responder certification; CPR certification at health care provider level.

Limitations on Enrollment: None.

Advisories: None.

This course is designed as a refresher course for certified first responders. The course focuses on recent changes in laws, policies and procedures pertaining to the treatment, support of sick or injured individuals, and provides a review of emergency medical treatments.

H S 77B Emergency Medical Technician 1 Units 4

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is for persons interested in pre-hospital emergency medical care. Successful completion of this course qualifies the student to take the certification examination for Emergency Medical Technician 1 (EMT-1). EMT 1 is the minimum training required by state and local agencies for employment in many fire and ambulance service industries. The course is a combination of classroom, skills, and clinical training. Current CPR certificate at health care provider level is required prior to enrolling in this course.

H S 81 Emergency Medical Technician 1 Refresher Units 1

Prerequisites: Exempt from assessment; current EMT I and CPR certificate at health care provider level.

Limitations on Enrollment: None.

Advisories: None.

This course is designed as a refresher course for certified Emergency Medical Technician 1. The course focuses on recent changes in laws and policies and procedures pertaining to pre-hospital emergency medical care. Successful completion of this course provides students with 24 hours of continuing education toward recertification as EMT I.

H S 90 Critical Thinking in the Nursing Process Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to assist the nursing student and the professional nurse in the development of critical thinking skills and the application of these skills to the nursing process. The use of analysis and synthesis in development of nursing diagnoses and interventions is included. Case studies and nursing situations are utilized in the application of these skills. Units in this course do not count toward the Associate of Arts Degree.

H S 91 Medical Nutrition Therapy Units 3

Prerequisites: Reading level II, FCS 6.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to increase the student's knowledge of the use of foods and nutrients for the prevention and treatment of diseases such as diabetes mellitus, hypertension, osteoporosis, vascular disease, and cancer. Enteral and parenteral delivery of nutrition are reviewed. Nutritional concerns related to maternal and child health are covered. Emphasis is placed on application of knowledge to patient care. This course is suited for students planning a career in nursing, other health professions, and food service in health care institutions.

H S 93V Work Experience: Health Science Units 1-8

Prerequisites: None.

Limitations on Enrollment: The student must enroll in a course that is directly related to the health care work experience. The student must enroll in a minimum of 7 units during the semester including work experience units. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

Advisories: GUID 30, 31, 32, 33.

This course is designed to give students college credit for on-the-job experience when correlated with a course relating to that job. Students must demonstrate new and expanded learning experiences before being permitted to repeat work experience. To register, contact the work experience staff in the work experience office. The course may be repeated for a total of sixteen units.

H S 97V Work Experience: Health Science 1-4 units

Prerequisites: Students must be enrolled in at least three units of class work, of which at least one course and also employment, must be related to major field of study.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to give students college credits for on-the-job experience related to their major study field. Students must demonstrate new and expanded learning experience before being permitted to repeat the course. To register, contact work experience staff in Holt 133. The course may be repeated three times in sequence except for the summer alternate plan.

HISTORY

HIST 2A World History to 1600 Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of world societies from pre-historic times to 1600. Special emphasis is placed on the dynamic interaction and comparison of peoples and cultures. Focus is placed on tracing concurrent political, social, cultural, economic, and religious developments. The course examines the key elements of various cultures and their legacy for the global community today. (UC, CSU)

HIST 2B World History Since 1600 Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of world societies since 1600 with special emphasis on the dynamic interaction and comparison of peoples and cultures. Focus is placed on tracing concurrent political, social, cultural, economic, and religious developments. The course examines the key elements of various cultures and their legacy for the global community today. (UC, CSU)

HIST 4A History of Western Civilization Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of western civilization from pre-literate times through Reformation. Special emphasis is placed on the ancient Near East including Egypt and Mesopotamia, classical Greece and Rome, the Middle Ages, and the Renaissance and Reformation era. The approach concentrates on the highlights of each period which have shaped the destiny of western culture. HIST 4A is not a prerequisite to HIST 4B. (UC, CSU, CAN HIST 2, CAN HIST SEQ A with both HIST 4A and 4B)

HIST 4B History of Western Civilization Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of western civilization from the commercial revolution to the present. Special emphasis is on the rise of modern capitalism, the emergence of European superpowers, 18th century revolutionary thought, 19th century Colonialism, Imperialism, and Nationalism, and the dynamics of the Twentieth Century, including total war, totalitarianism, and the westernization of the entire world. (UC, CSU, CAN HIST 4, CAN HIST SEQ A with both HIST 4A and

4B)

HIST 6A History of Asian Civilization Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introductory survey of the histories, philosophies, and cultural characteristics of Asian societies. Attention is given to the impact of the West on China, Japan, Korea, and Central Asia. (UC, CSU)

HIST 6B History of Asian Civilization Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introductory survey of the histories, philosophies, and cultural characteristics of Asian societies. Attention is given to the impact of the West on India, Iran, Southeast Asia, and the Near East. (UC, CSU)

HIST 15 Selected Topics: History Units 1-2

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer instruction in one of the specialized areas of history not already covered by existing curricula. (UC, CSU)

HIST 17A History of The United States Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of United States history from its colonial beginning through Civil War and Reconstruction. Students are encouraged to critically evaluate experiences from the nation's past. This course fulfills the social science group A requirement for the associate degree, and it applies toward the completion of California state requirements in United States history and institutions. (UC, CSU, CAN HIST 8, CAN HIST SEQ B with both HIST 17A and HIST 17B)

HIST 17B History of The United States Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of United States history from reconstruction to the present. Emphasis is on the political, economic, intellectual, and social forces which have molded America. The course fulfills the social science group A requirements for the associate degree and applies toward completion of the California state requirements in United States history and institutions. A study of California state and local government is included in this course. (UC, CSU, CAN HIST 10, CAN HIST SEQ B with both HIST 17A and HIST 17B)

HIST 19 Selected Topics: Study and Travel Units 2

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to combine travel with study experiences to enrich the curriculum. One or more aspects of the history of the area visited is stressed in this course. (CSU)

HIST 27 Women in History Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a review of the history of women in America with emphasis on achievements of women in traditional and non-traditional fields of work. The opportunities and limitations surrounding women's roles in United States history are explored. (UC, CSU)

HIST 30A African-American History Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an examination of African-American history from early west Africa to the Civil War. This course fulfills the social science group A requirement for an associate degree and it applies toward completion of the California state requirements in United States history and institutions. (UC, CSU)

HIST 30B African-American History Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a study of the African-American experience from Reconstruction to the present. It fulfills the Social Science group A requirement for the associate degree and applies toward completion of the California state requirements in United States history and institutions. A study of California state and local government is included in this course. (UC, CSU)

HIST 31 Mexican-American History Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of the Mexican-American experience in America from colonial beginnings to the present. It fulfills the Social Science group A requirements for the associate degree and it applies toward completion of the California state requirements in American history and institutions. (UC, CSU)

HIST 34 Asian Pacific American History Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course surveys the Asian Pacific American experience in America from the Gold Rush to the present. (UC, CSU)

HIST 37 California History Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of California history from the period of exploration and discovery to the present. Emphasis is on Spanish and Mexican periods, American infiltration and conquest, the Gold Rush, statehood, and the formation of government, economic growth, and social development. (UC, CSU)

HIST 50H Special Studies: History Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson in one of the following with a grade of "B" or better: HIST 2A, 2B, 4A, 4B, 6A, 6B, 17A, 17B, 27, 30A, 30B, 31, or 37.

Limitations on Enrollment: None.

Advisories: None.

This course is open to students qualified to do advanced work in the field of history. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (UC, CSU)

HUMANITIES

HUM 3 Autobiography of Civilization Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of the artistic traditions of our western cultural heritage. The arts including painting, sculpture, architecture, music, dance, drama, and literature are studied as vehicles in the search for meaning and value from the ancient world to modern times. (UC, CSU)

HUM 4 Introduction to Linguistics Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the study of language in theory and practice. Students explore what is known about human language including its uniqueness, its structure, its use, its diversity, and its universality. An effort is made to analyze the relationship between language, culture, and social levels. (UC, CSU)

HUM 14A Great Religions of The Eastern World Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of the historical development and essential beliefs of the major religions of the Eastern world. Primary emphasis is on the major phases of development and comparative insights among the great religions of the world. Course work consists of readings, lectures, and discussions in the areas of Hinduism, Buddhism, Jainism, Confucianism, and Taoism.. (UC, CSU)

HUM 14B Great Religions of The Western World Units 3

Prerequisites: Reading level II.

Limitation on Enrollment: None.

Advisories: None.

This course is a survey of the historical development and essential beliefs of the major religions of the Western world. Primary emphasis is on the major phases of development and comparative insights among the great religions of the world. Course work consists of readings, lectures, and discussions in the areas of ancient religious beliefs, Mesopotamian religions, Graeco-Roman religions, Teutonic religion, Zoroastrianism, Judaism, Christianity, and Islam. (UC, CSU)

HUM 15 Selected Topics: Humanities Units 0.5-2

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer instruction in one of the specialized areas of humanities not already covered by existing curricula. (UC, CSU)

HUM 19 Selected Topics: Study and Travel Units 2

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to combine travel with study experiences to enrich the curriculum. One or more aspects of the culture of the area visited is stressed in the course. (CSU)

HUM 50H Special Studies: Humanities Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; HUM 3, 14A or 14B with a grade of "B" or better.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to allow qualified students to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. The course may be repeated for a maximum of four units. (UC, CSU)

INDUSTRIAL TECHNOLOGY

INDUS 15 Selected Topics: Industrial Technology Units 1-2

Prerequisites: Reading level II or concurrent enrollment in reading.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enable the College to offer instruction in one of the specialized areas of industrial technology not already covered by existing curriculum. (CSU)

INDUS 20 Industrial Safety and Health Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce principles of occupational safety and health for the work-site. The course includes Occupational Safety and Health Act (OSHA) regulations, employee training, accident investigation, and safety considerations. (CSU)

INDUS 31 Hydraulics and Pneumatics Units 4

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop an understanding of the principles and mechanical applications of hydraulic, pneumatic and vacuum systems. Topics also include shop procedures, component disassembly, troubleshooting and certified procedures in re-assembly and installation. (CSU)

INDUS 35 Mobile Hydraulics Units 4

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the student to the use of hydraulics, pneumatics and vacuum in the automotive and mobile equipment industries. Laboratory skills develop competency in the analysis of trouble-shooting of circuits. Skills are developed in the recognition and construction of conduits (piping, tubing and hoses) and the rebuilding of pumps, motors and valves. (CSU)

INDUS 45 Industrial Technology Units 5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to cover the principles of matter and the basic laws and theories of Newtonian mechanics. Various forms and uses of energy and the laws governing them are explored. (CSU)

INDUS 50H Special Studies: Industrial Technology Units 1-2

Prerequisites: Completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.

Limitations on Enrollment: None.

Advisories: None.

This course is open to students qualified to do advanced work in the field. The program includes research, directed reading, field work or other advanced study, and the course may be repeated for a maximum of four units. (CSU)

INDUS 51 Private Pilot Ground School Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the student to the knowledge and skills required to be a competent and safe private pilot. The course also prepares the student to take the Federal Aviation Administration written examination for a private pilot certificate. (CSU)

INDUS 69V Internship: Industrial Technology Units 1-8

Prerequisites: None.

Limitations on Enrollment: The student must enroll in a course that is directly related to industrial technology. The student must enroll in a minimum of 7 units during the semester including internship units.

For the summer session, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.

Advisories: GUID 30, 31, 32, 33.

This course is designed for students participating in an occupational internship in industrial technology. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. (CSU)

INDUS 76 Tools and Measurement Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the student to hand tools and measuring devices commonly used in industry. The proper use of tools is stressed. Topics to be covered include tool measurement, micrometers, vernier calipers and basic hand tools.

INDUS 94 Industrial Mathematics Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students enrolled in technical programs with emphasis placed on applying mathematical principles to technical problems. The course includes aspects of mathematics, algebra, plane geometry, measurement, and fundamentals of trigonometry.

ITALIAN

ITAL 1 Elementary Italian Units 5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Italian language and Italian cultures. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. (UC, CSU)

ITAL 2 Elementary Italian Units 5

Prerequisites: Successful completion of ITAL 1 or 52.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Italian language and Italian cultures. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. (UC, CSU)

ITAL 3 Intermediate Italian Units 5

Prerequisites: Successful completion of ITAL 2 or 54.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer continued study of the Italian language and Italian cultures. Efforts to improve reading and composition skills are based on both contemporary and traditional selections. (UC, CSU)

ITAL 4 Intermediate Italian Units 5

Prerequisites: Successful completion of ITAL 3.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer continued study of the Italian language and Italian cultures. Efforts to improve reading and composition skills are based on both contemporary and traditional selection. (UC, CSU)

ITAL 36A Introductory Italian Conversation Units 2

Prerequisites: Successful completion of ITAL 1 or 51.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to strengthen fundamental communication

patterns based on typical daily situations. (CSU)

ITAL 36B Beginning Italian Conversation Units 2

Prerequisites: Successful completion of ITAL 2 or 53.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to achieve conversational ability based on typical daily situations. (CSU)

ITAL 38A Special Assignment: Listening Units 2

Prerequisites: Concurrent enrollment in or completion of ITAL 1 or ITAL 51.

Limitation on Enrollment: None.

Advisories: None.

This is a skill-building course with an emphasis on listening. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

ITAL 38B Special Assignment: Pronunciation Units 2

Prerequisites: Concurrent enrollment in or completion of ITAL 1 or ITAL 51.

Limitation on Enrollment: None.

Advisories: None.

This is a skill-building course with an emphasis on pronunciation. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

ITAL 38C Special Assignment: Reading Units 2

Prerequisites: Concurrent enrollment in or completion of ITAL 1 or ITAL 51.

Limitations on Enrollment: None.

Advisories: None.

This course is a skill-building course with an emphasis on reading. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

ITAL 38D Special Assignment: Writing Units 2

Prerequisites: Concurrent enrollment in or completion of ITAL 1 or ITAL 51.

Limitations on Enrollment: None.

Advisories: None.

This course is a skill-building course with an emphasis on writing. The course is designed to meet the special needs of students. This course is offered for individual or group study. (CSU)

ITAL 50H Special Studies: Italian Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; ITAL 4 with grade of "B" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to allow students to do advanced work in the language. The course includes research, directed reading, field work, or other advanced study. The course may be repeated for a maximum of 4 units. (UC, CSU)

ITAL 51 Elementary Italian Units 2.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Italian language and Italian culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and listening. The combined five units of ITAL 51 and 52 are equivalent to ITAL 1. (UC, CSU, CAN ITAL 2 with both ITAL 51 and 52, CAN ITAL SEQ A with both ITAL 51, ITAL 52, ITAL 53 and ITAL 54)

ITAL 52 Elementary Italian Units 2.5

Prerequisites: Successful completion of ITAL 51.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Italian language and Italian culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of ITAL 51 and 52 are equivalent to ITAL 1. (UC, CSU, CAN ITAL 2 with both ITAL 51 and 52, CAN ITAL SEQ A with both ITAL 51, ITAL 52, ITAL 53, and ITAL 54)

ITAL 53 Elementary Italian Units 2.5

Prerequisites: Successful completion of ITAL 1 or ITAL 52.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Italian language and Italian culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of ITAL 53 and 54 are equivalent to ITAL 2. (UC, CSU, CAN ITAL 4 with both ITAL 53 and 54, CAN ITAL SEQ A with both ITAL 51, ITAL 52, ITAL 53, and ITAL 54)

ITAL 54 Elementary Italian Units 2.5

Prerequisites: Successful completion of ITAL 53.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Italian language and Italian culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of ITAL 53 and 54 are equivalent to ITAL 2. (UC, CSU, CAN ITAL 4 with both ITAL 53 and 54, CAN ITAL SEQ A with both ITAL 51, ITAL 52, ITAL 53, and ITAL 54)

JAPANESE

JAPAN 1 Elementary Japanese Units 5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Japanese language and Japanese cultures. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. (UC, CSU)

JAPAN 2 Elementary Japanese Units 5

Prerequisites: Successful completion of JAPAN 1 or 52.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Japanese language and Japanese cultures. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. (UC, CSU)

JAPAN 3 Intermediate Japanese Units 5

Prerequisites: Successful completion of JAPAN 2 or 54.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer continued study of the Japanese language and the Japanese cultures. Efforts to improve reading and composition skills are based on both contemporary and traditional selections. (UC, CSU)

JAPAN 4 Intermediate Japanese Units 5

Prerequisites: Successful completion of JAPAN 3.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer continued study of the Japanese language and the Japanese cultures. Efforts to improve reading and composition skills are based on both contemporary and traditional selections. (UC, CSU)

JAPAN 36A Introductory Japanese Conversation Units 2

Prerequisites: Successful completion of JAPAN 1 or 51.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to strengthen fundamental communication patterns based on typical daily situations. (CSU)

JAPAN 36B Beginning Japanese Conversation Units 2

Prerequisites: Successful completion of JAPAN 2 or 53.

Limitations on Enrollment: None.

Advisories: None.

This course designed to achieve conversational ability based on typical daily situations. (CSU)

JAPAN 38A Special Assignment: Listening Units 2

Prerequisites: Concurrent enrollment in or completion of JAPAN 1 or JAPAN 51.

Limitations on Enrollment: None.

Advisories: None.

This course is a skill-building course with an emphasis on listening. The course is designed to meet the special needs of students. The course may be offered for individual or group study. (CSU)

JAPAN 38B Special Assignment: Pronunciation Units 2

Prerequisites: Concurrent enrollment in or completion of JAPAN 1 or JAPAN 51.

Limitations on Enrollment: None.

Advisories: None.

This course is a skill-building course with an emphasis on pronunciation. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

JAPAN 38C Special Assignment: Reading Units 2

Prerequisites: Concurrent enrollment in or completion of JAPAN 1 or JAPAN 51.

Limitations on Enrollment: None.

Advisories: None.

This course is a skill-building course with an emphasis on reading. The course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

JAPAN 38D Special Assignment: Writing Units 2

Prerequisites: Concurrent enrollment in or completion of JAPAN 1 or JAPAN 51.

Limitations on Enrollment: None.

Advisories: None.

This course is a skill-building course with an emphasis on writing. This course is designed to meet the special needs of students. The course is offered for individual or group study. (CSU)

JAPAN 50H Special Studies: Japanese Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; JAPAN 4 with a grade of "B" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to allow students to do advanced work in the language. The course includes research, directed reading, field work, or other advanced study. The course may be repeated for a maximum of four units. (UC, CSU)

JAPAN 51 Elementary Japanese Units 2.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction of the Japanese language and Japanese culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of JAPAN 51 and 52 are equivalent to JAPAN 1. (UC, CSU)

JAPAN 52 Elementary Japanese Units 2.5

Prerequisites: Successful completion of JAPAN 51.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Japanese language and Japanese culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of JAPAN 51 and 52 are equivalent to JAPAN 1. (UC, CSU)

JAPAN 53 Elementary Japanese Units 2.5

Prerequisites: Successful completion of JAPAN 1 or 52.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Japanese language and Japanese culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of JAPAN 53 and 54 are equivalent to JAPAN 2. (UC, CSU)

JAPAN 54 Elementary Japanese Units 2.5

Prerequisites: Successful completion of JAPAN 53.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the Japanese language and Japanese culture. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. The combined five units of JAPAN 53 and 54 are equivalent to JAPAN 2. (UC, CSU)

JOURNALISM

JOURN 1 Introduction to Mass Communications Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a comprehensive study of the history, development, and current state of the mass media, including newspapers, magazines, television, radio, on-line services, public relations, advertising, and photojournalism, emphasizing functions and obligations in

a free society. The course also addresses controls on the media, including mass media law and ethics. The constitutional basis for a free press is extensively explored. (CSU, UC, CAN JOUR 4)

JOURN 2 Newswriting Units 2

Prerequisites: JOURN 1.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer students technical instruction in journalistic writing. Emphasis is placed on the personal interview as a process in structuring the more personalized, yet objective, presentation of news and feature coverage. Accompanying the various areas of writing instruction is experience in headline writing and newspaper make-up. JOURN 2 could be taken concurrently with JOURN 3 and with one hour TBA lab on the College newspaper for one additional unit of credit. (CSU, CAN JOURN 2)

JOURN 3 Reporting Units 3

Prerequisites: JOURN 1.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer training and practice of editorial and managerial involvement in the production of the Impact, the College newspaper. The student reviews business and advertising opportunities in the publications' field. (CSU)

JOURN 4 Editing Units 3

Prerequisites: JOURN 3.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer technical training in copy editing, headline writing, page make-up, and general management of the Impact staff. (CSU)

JOURN 5 Managing Units 3

Prerequisites: JOURN 3 or 4.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer training for managing articulation between the editorial and printing staffs, mastering the interview, researching and reporting complex issues in an ethical manner, and learning to provide leadership in personnel matters. (CSU)

JOURN 6 Journalism Internship Units 3

Prerequisites: JOURN 1 and 2.

Limitations on Enrollment: None.

Advisories: None.

This course is offered to provide the advanced journalism student with the opportunity to work for either an off-campus print or electronic medium and to earn credit for such experience. (CSU)

JOURN 50H Special Studies: Journalism Units 2

Prerequisites: Completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.

Limitations on Enrollment: None.

Advisories: None.

This course is open to any student qualified to do advanced work in the field. The program includes research, directed reading, field work or other advance study. May be repeated for a maximum of four units. (CSU)

JOURN 53 Freelance Writing Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to assist the students in pursuing the development and publication of original writings. These may consist of fiction and non-fiction, including magazine and newspaper articles, short stories, poems, novels, plays, screenplays, television scripts, and photojournalism. (CSU)

LEARNING DISABILITY

L D 70 College Awareness Units 2

Prerequisites: None.

Limitations on Enrollment: Approval by Learning Disabilities Specialist based on qualification for Learning Disabilities Program.

Advisories: None.

This course is designed to help the student qualifying for the Learning Disabilities Program to acquire academic, social, and vocational skills. The course offers compensatory strategies needed to be successful in college. The student participates in their mutual development of the individual education plan. Units earned in this course do not count toward the associate degree.

L D 78A Auditory Discrimination and Word Attack Skills Units 0.5-2

Prerequisites: None.

Limitations on Enrollment: Approval by Learning Disabilities Specialist based on qualification for Learning Disabilities Program.

Advisories: None.

This course is designed to help the student qualify for the Learning Disabilities Program to improve spelling, reading, and word attack skills by improving the knowledge and use of sound-symbol correspondence, syllabification, and whole word analysis. Units earned in this course do not count toward the associate degree.

L D 78B Visual Perception Training Units 0.5-2

Prerequisites: Diagnostic assessment; admission into the LD program.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to assist learning disabled students in acquiring visual perception skills necessary for success in the college curriculum. Each student's program is prescribed based on individual needs. This course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

L D 78C Basic Modality Reading Program Units 0.5-2

Prerequisites: Diagnostic assessment; admission into the LD program.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to assist learning disabled students in acquiring basic modality reading skills necessary for success in the college curriculum. Each student's program is prescribed based on individual needs. This course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

L D 78D Writing Skills Units 0.5-2

Prerequisites: None.

Limitations on Enrollment: Approval by Learning Disabilities Specialist based on qualification for Learning Disabilities program.

Advisories: None.

This course is designed to help the student qualifying for the Learning Disabilities Program with writing skills necessary for success in the college curriculum. The purpose of this course is to guide the student through a process of writing well-organized, logical paragraphs based on their learning modality strength. Units earned in this course do not count toward the associate degree.

L D 78E Modality and Study Skills Units 0.5-2

Prerequisites: None.

Limitations on Enrollment: Approval by Learning Disabilities Specialist based on qualification for Learning Disabilities Program.

Advisories: None.

This course is designed to help the student qualifying for the Learning Disabilities Program with directed practice in developing reading and study skills. Units earned in this course do not count toward the associate degree.

L D 78F Modality Vocabulary Program Units 0.5-2

Prerequisites: Diagnostic assessment; admission into the LD program.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to assist learning disabled students in acquiring modality vocabulary skills necessary for success in the college curriculum. Each student's program is prescribed based on individual needs. This course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

L D 78G Compensation Study Techniques Units 0.5-2

Prerequisites: Diagnostic assessment; admission into the LD program.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to assist learning disabled students in acquiring compensation study skills necessary for success in the college curriculum. Each student's program is prescribed based on individual needs. This course meets the level I reading requirement. Units earned in this course do not count toward the associate degree.

LIBRARY SKILLS

LIBRY 1 Library Skills Units 1

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is a self-paced course designed to familiarize students with the variety of information resources available in academic libraries. Effective use of library services and resources is the primary objective. (UC, CSU)

LIBRY 2 Library Research Units 2

Prerequisites: Reading level II; LIBRY 1.

Limitations on Enrollment: None.

Advisories: None.

This course is a self-paced course designed to introduce students to general and specific library research tools and techniques, and it applies and elaborates on skills learned in LIBRY 1. (UC, CSU)

MATHEMATICS

MATH 1 Calculus Units 5

Prerequisites: MATH 36, or MATH 30 and MATH 31 with a grade of "C" or better in each.

Limitations on Enrollment: None.

Advisories: None.

This course is the first course in the three semester Calculus series which concentrates on an introduction to the Calculus of single variable functions. The course includes a computer laboratory component complementing the lecture component. Lecture and laboratory topics include an introduction to the concepts of numerical, graphical, and symbolic differentiation and integration of functions with an emphasis on applications. (UC, CSU, CAN MATH 18, CAN MATH SEQ B with both MATH 1 and 2, CAN MATH SEQ C with both MATH 1, MATH 2, and MATH 3)

MATH 2 Calculus Units 4

Prerequisites: MATH 1 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is the second course in the three semester Calculus series. Topics include techniques of integration, applications of the integral, an introduction to solutions of differential equations, and infinite series representations of functions. (UC, CSU, CAN MATH 20, CAN MATH SEQ B with both MATH 1 and 2, CAN MATH SEQ C with both MATH 1, MUSIC 2, and MUSIC 3)

MATH 3 Vector Calculus Units 4

Prerequisites: MATH 2 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an introductory course in the study of calculus of multivariate functions. The course includes a computer laboratory component complementing the lecture component. Lecture and laboratory topics include vectors, parametric curves, polar, cylindrical, and spherical coordinates, partial differentiation, multiple integrals, line and surface integrals, and the theorems of Gauss, Stokes, and Green. (UC, CSU, CAN, MATH 22, CAN MATH SEQ C with both MATH 1, 2, and 3)

MATH 4 Differential Equations Units 4

Prerequisites: MATH 2 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an introductory course in the study of elementary differential equations. The course includes a computer laboratory component complementing the lecture component. Lecture and laboratory topics include first and second order linear differential equations, nonlinear differential equations, power series solution methods, the Laplace transform, solutions near ordinary and singular points, and systems of linear differential equations. (UC, CSU, CAN, MATH 24)

MATH 5 Linear Algebra Units 3

Prerequisites: MATH 2 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to linear algebra for those students anticipating a career in mathematics, engineering, the physical sciences and some business curricula. Topics include geometrical vectors, matrices and linear equations, vector spaces, linear transfor-

mations, determinants, and inner product spaces. The course includes applications. (UC, CSU, CAN MATH 26)

MATH 10 Introduction to Contemporary Mathematics Units 3

Prerequisites: MATH 82 or MATH 84A and 84B with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a one-semester introduction to the mathematical sciences. Contemporary applications of mathematics include concepts in the areas of management science, statistics, social choice, size and growth, and computer science. Real world applications of these topics are presented. This course is designed to satisfy mathematics requirements for the liberal arts non-science major. (CSU)

MATH 12 Introduction to Probability and Statistics Units 3

Prerequisites: MATH 82 or 84A and 84B with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to acquaint students to statistical methods. The purpose is to teach students to read research reports critically using elementary statistical techniques as in business administration, education, natural sciences, psychology, and social science. (UC, CSU, CAN STAT 2)

MATH 13 Survey of Calculus Units 3

Prerequisites: MATH 82, or MATH 84A and 84B, with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed primarily for students studying business, life science, social science, or engineering technology who wish an overview of the practical aspects of Calculus, rather than the more rigorous development found in the three semester sequential Calculus series (MATH 1, 2, 3). (UC, CSU, CAN MATH 30)

MATH 15 Selected Topics: Mathematics Units 0.5-2

Prerequisites: Reading level II or concurrent enrollment in reading; MATH 80 or MATH 83A and 83B with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enable the College to offer instruction in one of the specialized areas of mathematics not already covered by the existing curriculum. (UC, CSU)

MATH 17A Concepts and Structures of Mathematics Units 3

Prerequisites: MATH 82 or MATH 84B with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is one of two courses designed for the pre-service elementary teacher. Topics include the structure of the real number system, operations on the real numbers, and elementary number theory. (UC, CSU)

MATH 17B Concepts and Structures of Mathematics Units 3

*Prerequisites: MATH 82 or MATH 84B with a grade of "C" or better.
Limitations on Enrollment: None.*

Advisories: None.

This course is one of two courses designed for the pre-service elementary teacher. Topics include problem solving, probability and statistics, the metric system, measurement, and geometry. (UC, CSU)

MATH 20 Finite Mathematics Units 3

Prerequisites: MATH 82 or MATH 84A and 84B with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to fulfill the finite mathematics requirements of students in business administration, management, life sciences, and the social sciences. The content includes review topics of algebra, matrices, linear programming, elementary probability theory, Markov chains, decision theory, mathematics of finance, and game theory. Graphing calculators are used extensively. Instructor demonstrations utilize the TI-82 calculator. (UC, CSU, CAN MATH 12)

MATH 30 College Algebra Units 4

Prerequisites: MATH 82, or MATH 84A and 84B, with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a detailed study of algebraic functions and equations, including conic sections, at the college level. Graphing calculators are used extensively. Instructor demonstrations utilize the TI-82 calculator. Trigonometry (MATH 31) may be taken concurrently with MATH 30. MATH 30 and MATH 31 together are equivalent to MATH 36. Students may not receive credit for both MATH 30 and MATH 36. (UC, CSU)

MATH 31 Trigonometry Units 3

Prerequisites: MATH 82, or MATH 84A and 84B, with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a detailed study of basic trigonometry and the trigonometric functions. Graphing calculators are used extensively. Instructor demonstrations utilize the TI-82 calculator. College Algebra (MATH 30) may be taken concurrently with MATH 31. MATH 30 and MATH 31 together are equivalent to MATH 36. Students may not receive credit for both MATH 31 and MATH 36. (CSU)

MATH 36 Pre-Calculus Units 5

Prerequisites: MATH 82, or MATH 84A and 84B, with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a study of the algebra of polynomial and transcendental functions, the trigonometric functions and their applications, conic sections, and other topics necessary for success in calculus.

Graphing calculators are used extensively. Instructor demonstrations utilize the TI-82 calculator. Students may not receive credit for both MATH 36 and MATH 30 or MATH 31. MATH 30 and MATH 31 are equivalent to MATH 36. (UC, CSU)

MATH 50H Special Studies: Mathematics Units 1-2

Prerequisites: MATH 1 or 12, with a grade of "B" or better, and presentation of a project acceptable to the instructor and the division chairperson.

Limitations on Enrollment: None.

Advisories: None.

This course is offered to any student qualified to do advanced work in mathematics. Projects and assignments must be arranged and approved by the instructor and the division chairperson before enrolling in the course, and the course may be repeated for a maximum of four units. (UC, CSU)

MATH 80 Elementary Algebra Units 4

Prerequisites: Reading level II and Math level II.

Limitations on Enrollment: None.

Advisories: None.

This course is a first course in algebra. Specific topics include polynomials, factoring of polynomials, rational expressions, ratio and proportion, solving linear and quadratic equations, elementary graphing in two dimensions, elementary systems of linear equations, square roots, and various application problems. Entering students need a satisfactory understanding of basic arithmetic, including fractions, decimals, and percentages. The course is equivalent to a first year algebra course.

MATH 80L Elementary Algebra Workshop Units 1

Prerequisites: Reading level II and Math level II; concurrent enrollment in MATH 80, MATH 83A or MATH 83B.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to supplement the lecture course Elementary Algebra (MATH 80). Students are instructed in the use of technical learning tools, such as videotapes and computer tutorial software, as well as instruction in various learning activities, such as seminars on group-study mathematics study skills, improving examination success, and conquering mathematics anxiety. Students practice these skills in application to their MATH 80 course work as part of the workshop sessions. Included is a review of arithmetic skills necessary for success in MATH 80.

MATH 81 Plane Geometry Units 3

Prerequisites: Reading level II or concurrent enrollment in reading; MATH 80 or MATH 83A and 83B with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course involves the fundamentals of Euclidean plane geometry necessary for understanding two dimensional spatial relationships. Logical thinking is stressed and formal proofs are required. The content includes reasoning, axiomatic foundations, basic theorems, numerical relationships, polygons and areas, circles, and surface and volume.

MATH 82 Intermediate Algebra Units 4

Prerequisites: Reading level II and Math level II; MATH 80 or equivalent with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a second course in algebra. Specific topics include linear and quadratic inequalities, graphing of linear and quadratic functions, polynomial factoring, rational expressions, radicals, complex numbers, systems of linear equations using Cramer's Rule,

conic sections, exponential and logarithmic functions, and arithmetic and geometric sequences and series.

MATH 82L Intermediate Algebra Workshop Units 1

Prerequisites: Reading level II and Math level II; concurrent enrollment in MATH 82, MATH 84A, or MATH 84B.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to supplement the lecture course Intermediate Algebra (MATH 82). Students are instructed in the use of technical learning tools such as videotapes and computer tutorial software, as well as instruction in various learning activities, such as seminars on group-study, mathematics study skills, improving examination success and conquering mathematics anxiety. Students practice these skills in application to their MATH 82 course work as part of the workshop sessions. Included is a review of arithmetic and elementary algebra skills necessary for success in MATH 82.

MATH 83A Elementary Algebra Units 2

Prerequisites: Reading level II and Math level II.

Limitations on Enrollment: None.

Advisories: None.

This course is equivalent to the first half of MATH 80 (Elementary Algebra) and it allows students more study time for the course topics. Completion of both MATH 83A and MATH 83B is equivalent to completion of MATH 80. Entering students need to have a satisfactory understanding of basic arithmetic, including fractions, decimals, and percents.

MATH 83B Elementary Algebra Units 2

Prerequisites: Reading level II and Math level II; MATH 83A with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is equivalent to the second half of MATH 80 (Elementary Algebra) and it allows students more study time for the course topics. Completion of both MATH 83A and 83B is equivalent to completion of a first course in algebra.

MATH 84A Intermediate Algebra Units 2

Prerequisites: Reading level II and Math level II; MATH 80 or MATH 83A and 83B or equivalent, each with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is equivalent to the first half of a second course in algebra. This course is designed to allow students more time for the course topics. Completion of both MATH 84A and MATH 84B is equivalent to completion of a second course in algebra.

MATH 84B Intermediate Algebra Units 2

Prerequisites: Reading level II and Math level II; MATH 84A or equivalent with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is equivalent to the second half of a second course in algebra. This course is designed to allow students more time for the course topics. Completion of both MATH 84A and MATH 84B is equivalent to completion of a second course in algebra.

MATH 85A Mathematics Laboratory Units 1-3

Techniques: Mathematica

Prerequisites: MATH 36 or combination of MATH 30 and MATH 31 with a grade of "B" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to prepare the student to serve as a laboratory assistant and to aid other students using the Mathematics Laboratory. The student serves as a laboratory assistant.

MATH 87 Technical Mathematics Units 5

Prerequisites: MATH 80; Reading Level II or concurrent enrollment in reading.

Limitations on Enrollment: None.

Advisories: None.

This course includes the essentials of geometry, certain algebraic topics, trigonometry, and an exposure to calculus as needed by engineering aides, industrial arts students, and others whose courses do not demand the more complete sequence of mathematics courses. Emphasis is placed on applying mathematical principles to technical problems.

MATH 88 Pre-Algebra Units 3

Prerequisites: Math level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students needing to bridge the gap between arithmetic and algebra. Instruction is provided in the computational and problem-solving skills necessary for academic, vocational, and/or professional programs. Units earned in this course do not count toward the associate degree.

MATH 88L Pre-Algebra Laboratory Units 0.5-1

Prerequisites: Math level II; concurrent enrollment in MATH 88.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide students with individual diagnosis, prescription, and instruction in the pre-algebra topics covered in MATH 88. Units in this course do not apply toward the associate degree.

MECHANICAL TECHNOLOGY

MECH 10 Basic Welding for the Trades Units 4

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to serve students who need basic welding skills. The course covers basic theory, practice and application of metal joining processes, metal cutting, and welding for ferrous and nonferrous metals and alloys. Welding methods include shielded metal arc welding, oxy-acetylene, and an introduction to metal inert gas and tungsten inert gas. (CSU)

MECH 15 Machine Tool Process Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students who plan to enter occupations

in metals technology, manufacturing, engineering, and related fields. Students learn theory and operation of metal-working machines including lathes, grinding machines, milling machines, drill presses, and sawing machines. Topics include cutting tools, measuring tools and instruments, welding, casting, heat treatment of steel, production setups, and Computer Numerical Control (CNC) machines. A combined program of lecture and laboratory allows students to have hands-on experience with a variety of machinery processes. (CSU)

MECH 30A Refrigeration and Air Conditioning Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce students to the proper skills required to maintain and service refrigeration and air conditioning systems. Students learn how to charge, evacuate, and recover refrigerants utilizing common equipment found in the industry. (CSU)

MECH 30B Intermediate Refrigeration Units 3

Prerequisites: MECH 30A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop skills necessary to service and repair systems found in the refrigeration and air conditioning industry. (CSU)

MECH 30C Advanced Refrigeration Units 3

Prerequisites: MECH 30A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop skills necessary to service and repair commercial and industrial refrigeration systems. Students work on industrial systems as well as other advanced projects. (CSU)

MECH 31A Basic Air Conditioning: Components and Circuits Units 6

Prerequisites: MECH 30A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students interested in learning the fundamentals of heating and air conditioning. Emphasis is placed on the electrical and mechanical theory of operation related to common heating and air conditioning equipment. The course covers basic electricity, basic circuits, and common electrical components and their applications to heating and air conditioning. (CSU)

MECH 31B Basic Air Conditioning: Troubleshooting Units 6

Prerequisites: MECH 31A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop skills necessary to properly install split systems and packaged air conditioning systems. Operation, maintenance, and repair procedures of various heating and air conditioning systems are covered. (CSU)

MECH 31C Heat Pumps and Air Conditioning Systems Units 6

Prerequisites: MECH 31B.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to familiarize students with the electrical and mechanical operation of heat pumps and chilled water systems. Sequence of operation, temperature, pressure, and electrical analysis are covered. (CSU)

MECH 31D Commercial Air Conditioning Design and Operation Units 6

Prerequisites: MECH 31C.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop skills necessary for calculating residential and commercial cooling loads and duct design. Boiler applications, operation, and controls are covered. (CSU)

MECH 32A Air Conditioning Control Circuit Analysis Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce students to the selection, application, and maintenance of automatic controls generally found in the air conditioning field. The different types of controls found in residential, commercial, and industrial applications are covered. Schematics involving the various controls are used to analyze control problems. (CSU)

MECH 32B Refrigeration Control Circuit Analysis Units 3

Prerequisites: MECH 32A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce students to the basic refrigeration controls found in domestic refrigeration systems and advances up to industrial refrigeration controls. Control theory, application, and electrical trouble-shooting are stressed. (CSU)

MECH 32C Design and Troubleshooting Commercial Controls Units 3

Prerequisites: MECH 32B.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to acquaint students with the basic commercial controls used in the heating and air conditioning industry. Students work with basic set-ups of both pneumatic and direct digital control systems. (CSU)

MECH 50A Introductory Machine Shop Units 8

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is based on the study of machine tool theory, blueprint reading, and related mathematics with hands-on shop experience. Topics include precision instruments, hand tools, layout, and the operation of drill presses, grinding machines, milling machines, lathes, sawing machines, with an emphasis on lathe. Students use computer software to retrieve and plot project blueprints. (CSU)

MECH 50B Beginning Machine Shop Units 8

Prerequisites: MECH 50A.

Limitations on Enrollment: None.

Advisories: None.

This course is based on the skills and knowledge learned in MECH 50A, Introductory Machine Shop. The course combines the study of machine tool theory blueprint reading, and related mathematics with hands-on shop experience. Topics include advanced layout and use of precision instruments and hand tools, advanced operation of drill presses, grinding machines, lathes, sawing machines, with an emphasis on the milling machine. Students use computer software to retrieve and plot project blueprints. (CSU)

MECH 50C Intermediate Machine Shop Units 8

Prerequisites: MECH 50B.

Limitations on Enrollment: None.

Advisories: None.

This course is based on the skills and knowledge learned in MECH 50B, Beginning Machine Shop. The course combines the study of machine tool theory, blueprint reading, and related mathematics with hands-on shop experience. The major emphasis of the course is the programming of the Computer Numerical Control (CNC) lathe and the CNC milling machine. Students write programs in the "G" and "M" code format and use programs to operate the CNC machine tools. Programming topics include tapers, arcs, turning cycles, threading, drilling, grooving, parting off, and cutter radius compensation. (CSU)

MECH 50D Advanced Machine Shop Units 8

Prerequisites: MECH 50C.

Limitations on Enrollment: None.

Advisories: None.

This course is based on the knowledge and skills learned in MECH 50C, Intermediate Machine Shop. The course combines the study of machine tool theory, blueprint reading, and related mathematics with hands-on shop experience. The emphasis of the course is Computer-Aided Drafting/Computer-Aided Manufacturing (CAD/CAM) using the CAD/CAM software. Students construct drawings on computers, add tooling information, define tool paths, generate Computer Numerical Control (CNC) code and use the CNC code to operate the CNC machine tools. (CSU)

MECH 52A Computer Numerical Control (CNC) Units 3

Prerequisites: MECH 15, or MECH 50A, or MECH 77A, or MECH 78A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce applications of computer numerical control programming for the areas of manufacturing, engineering, and machining. Topics covered include Cartesian coordinates, process planning, computer numerical control mathematics, tooling, speeds and feeds, and G and M Code programming for lathe and mill with emphasis on the lathe. (CSU)

MECH 52B Advanced CNC/Computer-Aided Manufacturing (CNC/CAM) Units 3

Prerequisites: MECH 52A.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to introduce topics in advanced computer numerical control programming for lathe and mill with emphasis on the mill. Computer Numerical Control (CNC) codes are generated

also from existing data bases by using Computer Aided Manufacturing (CAM) computer software. (CSU)

MECH 60 Metal Trade Layout and Forming Units 5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to teach skills in basic layout and forming to better prepare students for employment areas such as machine shop, heating and air conditioning, fabrication, and maintenance personnel. (CSU)

MECH 67A Elementary Machine Shop Units 4

Prerequisites: None.

Limitation on Enrollment: None.

Advisories: None.

This course is an introduction to machine tool theory, blueprint reading, and related mathematics with hands-on shop experience. Subjects include precision instruments, hand tools, layout and the operation of stationary power tools with an emphasis on the lathe. Students use computer software to retrieve and plot project blueprints. Elementary Machine Shop (MECH 67A and MECH 67B) is equivalent to Introductory Machine Shop (MECH 50A). Students who successfully complete MECH 67A or MECH 67B may not receive credit for MECH 50A. (CSU)

MECH 67B Elementary Machine Shop Units 4

Prerequisites: MECH 67A with a grade of "C" or better.

Limitation on Enrollment: None.

Advisories: None.

This course is an introduction to machine tool theory, blueprint reading, and related mathematics with hands-on shop experience. Subjects include precision instruments, hand tools, layout and the operation of lathes and portable power tools. Students use computer software to retrieve and plot project blueprints. Elementary Machine Shop (MECH 67A and MECH 67B) is equivalent to Introductory Machine Shop (MECH 50A). Students who successfully complete MECH 67A or MECH 67B may not receive credit for MECH 50A. (CSU)

MECH 67C Machine Shop Units 4

Prerequisites: MECH 50A or MECH 67B; with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide general machine tool theory, blueprint reading, and related mathematics for the manufacturing of machine parts. Subjects include advanced layout, uses of precision measuring instruments, and operation of drill presses, grinding machines, lathes, vertical milling machines, and saws. Students use computer software to retrieve and plot project blueprints. Machine Shop (MECH 67C and MECH 67D) is equivalent to Beginning Machine Shop (MECH 50B). Students who successfully complete MECH 67C or MECH 67D may not receive credit for MECH 50B. (CSU)

MECH 67D Machine Shop Units 4

Prerequisites: MECH 67C with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide students with theory and applications of advanced machine tool operations. Subjects include ad-

vanced lathe, vertical mill, horizontal mill, dividing head and rotary table applications. Students use computer software to retrieve and plot project blueprints. Machine Shop (MECH 67C and MECH 67D) is equivalent to Beginning Machine Shop (MECH 50B). Students who successfully complete MECH 67C or MECH 67D may not receive credit for MECH 50B. (CSU)

MECH 69V Internship: Machine Tool Technology Units 1-8

Prerequisites: None.

Limitations on Enrollment: The student must enroll in a course that is directly related in the machine tool technology internship. The student must enroll in a minimum of 7 units during the semester including internship units. For summer session, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.

Advisories: GUID 30, 31, 32, 33.

This course is designed for students participating in an occupational internship in machine tool technology. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. (CSU)

MECH 77A Machine Shop: Basic Trade Extension Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for persons interested in the machinists trade. Lecture topics include math, blueprint reading, layout, precision measurements, materials and processes. Laboratory assignments are arranged according to needs of individuals.

MECH 77B Machine Shop: Basic Trade Extension Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students who desire a knowledge of machining processes for employment. Lecture topics include mathematics, blueprint reading, precision measurements, materials and processes. Laboratory assignments are arranged according to needs of individuals.

MECH 77C Machine Shop: Trade Extension Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students who desire a knowledge of machining processes for employment. Lecture topics include mathematics, blueprint reading, precision measurements, materials and processes. Laboratory assignments are arranged according to needs of individuals.

MECH 78A Machine Shop: Trade Extension Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is for persons employed in the machinist trade topics covered include milling machine, heat treating, grinding, drill press, shaper, assignments are arranged according to needs of individuals.

MECH 78B Machine Shop: Trade Extension Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students who desire a knowledge of machining processes for employment. Lecture topics include mathematics, blueprint reading, precision measurements, materials and processes. Laboratory assignments are arranged according to needs of individual.

MECH 78C Machine Shop: Trade Extension Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students who desire a knowledge of machining processes for employment. Lecture topics include mathematics, blueprint reading, precision measurements, materials and processes. Laboratory assignments are arranged according to needs of individuals.

MECH 81A Refrigeration, Heating, and Air Conditioning Specialization Units 3

Prerequisites: MECH 31C.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to assist advanced students in gaining a greater knowledge of a specialized area of the refrigeration, heating, and air trade. The work covered is developed between the student and the instructor at the beginning of the course.

MECH 87A Machine Tool Technology Specialization Units 3-4

Prerequisites: MECH 50C.

Limitations on Enrollment: This course requires instructor approval to enroll.

Advisories: None.

This course is designed for advanced students in machine technology. Students complete an advanced specialized project developed in consultation with the instructor.

MECH 87B Machine Tool Specialization Units 5

Prerequisites: MECH 50C.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to assist advanced students in gaining a greater knowledge of a specialized area of machine tool technology. Student objectives are developed between the student and the instructor at the beginning of the course.

MECH 87C Air Conditioning, Refrigeration, and Heating Specialization Units 2-3

Prerequisites: MECH 31C.

Limitations on Enrollment: This course requires instructor approval to enroll.

Advisories: None.

This course is designed for advanced students in air conditioning, refrigeration, and heating (HVAC). Students complete an advanced specialized project developed in consultation with the instructor.

MECH 88A Introductory Trade Welding Units 8

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to serve trade and industrial students as well as persons desiring the skills of welding for employment. The course covers theory and application of metal joining processes including metal cutting, arc welding, and joining of ferrous and nonferrous metals and alloys. Manipulative skills in the oxyacetylene process are stressed. Emphasis is placed on individualized student goals in their respective related skill area.

MECH 88B Beginning Trade Welding Units 8

Prerequisites: MECH 88A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to serve trade and industrial students along with persons desiring the skills of welding for employment. The course covers theory and application of metal joining process, metal cutting and arc welding processes, and joining of ferrous and nonferrous metals and alloys. Manipulative skills in shielded metal arc welding processes are stressed. Emphasis is placed on individualized student goals in their respective related skill area.

MECH 88C Intermediate Trade Welding Units 8

Prerequisites: MECH 88B.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to serve trade and industrial students as well as persons desiring the skills of welding for employment. The course covers theory and application of metal joining process, metal cutting and arc welding processes, and joining of ferrous and nonferrous metals and alloys. Manipulative skills in tungsten inert gas (TIG) welding process are stressed.

MECH 88D Advanced Trade Welding Units 8

Prerequisites: MECH 88C.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to serve trade and industrial students as well as persons desiring the skills of welding for employment. The course covers theory and application of metal joining process, metal cutting and arc welding processes, and joining of ferrous and nonferrous metals and alloys. Manipulative skills in metal inert gas welding processes are stressed. Emphasis is placed on individualized student goals in their respective related skill area.

MECH 89A Stick Welding Units 2

Prerequisites: Consent of instructor.

Limitations on Enrollment: None.

Advisories: None.

This course is an open-entry and open-exit course designed for students who wish to acquire skills in the Shielded Metal Arc welding (STICK) process.

MECH 89B Metal Inert Gas (MIG) Welding Units 2

Prerequisites: Consent of instructor.

Limitations on Enrollment: None.

Advisories: None.

This course is an open-entry and open-exit course designed for students who wish to acquire skills in the Metal Inert Gas (MIG) welding process.

MECH 89C Tungsten Inert Gas (TIG) Welding Units 2

Prerequisites: Consent of instructor.

Limitations on Enrollment: None.

Advisories: None.

This course is an open-entry and open-exit course designed for students who wish to acquire skills in the Tungsten Inert Gas (TIG) welding process.

MICROBIOLOGY

MICRO 2 Introduction to Medical Microbiology Units 4

Prerequisites: CHEM 3A with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a study of microorganisms with the main emphasis on bacteria and the disease process. Laboratory work includes cultural, morphological, growth requirements, biochemical characteristics of microorganisms, and field trips to demonstrate practical applications. Basic laboratory skills of the microbiologist are emphasized. This course is recommended for students planning to enroll in San Joaquin Delta College's Nursing Program. Students who plan to transfer to a college or university which requires a five-unit course in bacteriology or microbiology are advised to enroll in general microbiology. (CSU, CAN BIOL 14)

MICRO 3 General Microbiology Units 5

Prerequisites: CHEM 3A with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is the study of nature and activities of microorganisms and their relationships to human life and human interest. The laboratory activities include bacteriology and mycological techniques, demonstration of physiological activities, isolation and identification of microorganisms, some standard methods employed in water and milk analysis, and field trips to demonstrate practical applications. The course meets introductory requirements for majors in microbiology and for other students requiring knowledge of microbiology. (UC, CSU)

MUSIC

MUSIC 1 Music Fundamentals Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students who want a beginning back-

ground in the theory of music. No knowledge of music or music theory is assumed. The course includes: basic musical notation, rhythm and meter, major and minor scales, major and minor key signatures, intervals and inversions, triads (major, minor, diminished and augmented), some seventh chords, inversions of triads and seventh chords, elementary formal and harmonic analysis, and ear training for all of the above, plus some sight reading and melodic dictation. Some knowledge of keyboard will be included. This is NOT a music major course. (UC, CSU)

MUSIC 2A Music History from Antiquity to 1750 Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey dealing with the history of Western music from its antiquity to 1600. (UC, CSU)

MUSIC 2B Music History Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey dealing with the history of Western music from 1600 to 1800. (UC, CSU)

MUSIC 3A Introduction to Theory and Musicianship Units 4

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is the study of the intervals, major and minor triads, their connections and applications to simple diatonic melodies, the dominant seventh chord and its resolutions, the common chord modulations, ear training, interval recognition, and melodic and rhythmic dictation. (UC, CSU, CAN MUS 2, CAN MUS SEQ A with both MUSIC 3A and MUSIC 3B)

MUSIC 3B Beginning Theory and Musicianship Units 4

Prerequisites: MUSIC 3A.

Limitations on Enrollment: None.

Advisories: None.

This course is the study of a four-part writing in common practice style including primary and secondary triads and their inversions and resolutions. Included is simple chromatic sevenths and modulation to the near key. Keyboard and aural training is included. (UC, CSU, CAN MUSIC 4, CAN MUS SEQ A with both MUSIC 3A and MUSIC 3B)

MUSIC 3C Intermediate Theory and Musicianship Units 4

Prerequisites: MUSIC 3B.

Limitations on Enrollment: None.

Advisories: None.

This course is a theoretical and aural study of Bach two-part interventions, chromatic harmony and modulation, augmented sixth chords, Neapolitan sixth, chromatic sevenths, and enharmonic diminished seventh chords. Included is keyboard harmony with a minimum keyboard Bach invention and four-part harmony. (UC,

CSU)

MUSIC 3D Advanced Theory and Musicianship Units 4

Prerequisites: MUSIC 3C.

Limitations on Enrollment: None.

Advisories: None.

This course is a theoretical and aural study of advanced chromatic theory, the fugue, impressionistic techniques, and early 20th century harmonic techniques. It also includes a study of the basic two- and three-part forms, the Rondo forms, and the Sonata Allegro from the classical period to the present. (UC, CSU)

MUSIC 4 Exploring Music Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an exploration of growth and development of music from the 17th Century to the present. This course includes forms and styles used in Western art and surveys those factors influencing popular, rock, and commercial music as well as music used for live theater and in films. This is not a music major course. (UC, CSU)

MUSIC 5 Selected Topics: Music Units 1-2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer instruction in one of the specialized areas of music not already covered by existing curricula. (UC, CSU)

MUSIC 8 Exploring Jazz, Ragtime, and Blues Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of musical history and literature of jazz, ragtime, and blues in the United States. The course pursues an in-depth study of the genres, styles, and musical personalities involved in this unique American art form from the late nineteenth-century to the present. (UC, CSU)

MUSIC 12A Class Voice Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is the development of techniques for the solo voice. The principles of posture, breathing, diction, vocal anatomy, tone production, and presentation of one's self in public performances are stressed. Individual performance in class is a requirement. (UC, CSU)

MUSIC 12B Class Voice Units 1

Prerequisites: MUSIC 12A.

Limitations on Enrollment: None.

Advisories: None.

This course is the development of techniques for the solo voice. The principles of posture, breathing, diction, vocal anatomy, tone production, and presentation of one's self in public performances are stressed. Individual performance in class is a requirement. (UC, CSU)

MUSIC 12C Class Voice Units 1

Prerequisites: MUSIC 12B.

Limitations on Enrollment: None.

Advisories: None.

This course is the development of techniques for the solo voice. The principles of posture, breathing, diction, vocal anatomy, tone production, and presentation of one's self in public performances are stressed. Individual performance in class is a requirement. (UC, CSU)

MUSIC 12D Class Voice Units 1

Prerequisites: MUSIC 12C.

Limitations on Enrollment: None.

Advisories: None.

This course is the development of techniques for the solo voice. The principles of posture, breathing, diction, vocal anatomy, tone production, and presentation of one's self in public performances are stressed. Individual performance in class is a requirement. (UC, CSU)

MUSIC 15 Delta Singers Units 1

Prerequisites: Concurrent enrollment in MUSIC 17 or 17M; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop the art of singing in the small choral ensemble. The choir will consist of 20-30 members and will include the singing of choral masterworks from all historical periods for the chamber choir. Sight-reading and proper vocal technique will also be stressed. Students may receive credit in this course for a maximum of four semesters. (UC, CSU)

MUSIC 15M Delta Singers Units 1

Prerequisites: Concurrent enrollment in MUSIC 17 or 17M; concurrent enrollment in MUSIC 40 or 40M; completion of four semesters of MUSIC 15; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop the art of singing in the small choral ensemble. The choir consists of 20-30 members and includes the singing of choral masterworks from all historical periods for the chamber choir. Sight-reading and proper vocal techniques are also stressed. Students may receive credit in this course for a maximum of two semesters. (UC, CSU)

MUSIC 17 Concert Choir Units 1

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop the art of singing in the large choral ensemble. This ensemble stresses singing of choral masterworks for the large choir from all historical periods. Sight-reading and proper vocal technique are also stressed. Students may receive credit in this course for a maximum of four semesters. (UC, CSU)

MUSIC 17M Concert Choir Units 1

Prerequisites: Concurrent enrollment in MUSIC 40 or 40M; completion of four semesters of MUSIC 17; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop the art of singing in the large choral ensemble. This ensemble stresses the singing of choral masterworks for the large choir from all historical periods. Sight-reading and proper vocal technique are also stressed. Students may receive credit in this course for a maximum of two semesters. (UC, CSU)

MUSIC 18 Delta Chorale Units 1

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a choral ensemble for the community singer wishing to further knowledge of choral repertoire and vocal technique, and to enhance ensemble singing skills. The course stresses the study and performance of major works from the standard choral repertoire. Students may receive credit in this course for a maximum of four semesters. (UC, CSU)

MUSIC 26 Symphonic Band Units 1-2

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to the rehearsal and performance of symphonic band literature with emphasis on sight reading and public performance. Students may receive credit in this course for a maximum of four semesters. (UC, CSU)

MUSIC 26M Symphonic Band Units 1-2

Prerequisites: Concurrent enrollment in MUSIC 40 or 40M; completion of four semesters of MUSIC 26; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to the rehearsal and performance of symphonic band literature with emphasis on sight reading and public performance. Students may receive credit in this course for a maximum of two semesters. (UC, CSU)

MUSIC 27 Orchestra Units 1-2

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to the rehearsal and performance of orchestral literature with emphasis on sight reading and public performance. Students may receive credit in this course for a maximum of four semesters. (UC, CSU)

MUSIC 29 Jazz Band Units 1-2

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to the rehearsal and performance of jazz band literature with the emphasis on sight reading and public performance. The course includes concentration on the techniques and styles of jazz, jazz-rock, and improvisation. Students may receive credit for this course for a maximum of four semesters. (UC, CSU)

MUSIC 29M Jazz Band Units 1-2

Prerequisites: Concurrent enrollment in MUSIC 40 or 40M; completion of four semesters of MUSIC 29; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to the rehearsal and performance of jazz band literature with emphasis on sight reading and public performance. The course includes concentration on the techniques and styles of jazz, jazz-rock, and improvisation. Students may receive credit for this course for a maximum of two semesters. (UC, CSU)

MUSIC 30A Class Guitar Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a first course in development of techniques for the guitar. There is an emphasis on building chord vocabulary sufficient to accompany wide vocal ranges and learning to read music. (UC, CSU)

MUSIC 30B Class Guitar Units 1

Prerequisites: MUSIC 30A.

Limitations on Enrollment: None.

Advisories: None.

This course is a second course in guitar. The course includes upper position chord routines, transposition, notation, solo playing, and essentials of the classic guitar. (UC, CSU)

MUSIC 32 Studio Arts Ensemble Units 1

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students interested in the field of commercial music and entertainment. The ensemble consists of singer, backup instrumentalists, and technical crew who work together to study and perform selected musical arrangements. Opportunity for solo singing is frequent. The course stresses the study and performance of the unique American idioms of vocal jazz and songs of the American Musical Theater. The study of proper vocal technique, stage presence, and stage movement are also stressed. Students may receive credit for this course for a maximum of four semesters. (CSU)

MUSIC 36A Class Piano Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students who wish to play the piano for enjoyment and pleasure or who need to use the instrument as a future elementary school teacher. (UC, CSU)

MUSIC 36B Class Piano Units 1

Prerequisites: MUSIC 36A.

Limitations on Enrollment: None.

Advisories: None.

This course is the continuation of study for students who wish to continue to play the piano for enjoyment and pleasure or who need to use the instrument as a future elementary school teacher. (UC, CSU)

MUSIC 36C Class Piano Units 1

Prerequisites: MUSIC 36B.

Limitations on Enrollment: None.

Advisories: None.

This course is the continuation of study for students who wish to play the piano for enjoyment and pleasure, or who need to use the instrument as a future elementary classroom teacher. (UC, CSU)

MUSIC 36D Class Piano Units 1

Prerequisites: MUSIC 36C.

Limitations on Enrollment: None.

Advisories: None.

This course is the continuation of study for students who wish to play

the piano for enjoyment and pleasure, or who will to use the instrument as a future elementary classroom teacher. (UC, CSU)

MUSIC 38A Class Piano for Music Majors Units 1

Prerequisites: Concurrent enrollment in MUSIC 3A.

Limitations on Enrollment: None.

Advisories: None.

This course is a first course for the music major which is designed to teach the skills necessary for satisfactory completion of the piano proficiency examination. (UC, CSU)

MUSIC 38B Class Piano for Music Majors Units 1

Prerequisites: MUSIC 38A; concurrent enrollment in MUSIC 3A.

Limitations on Enrollment: None.

Advisories: None.

This course is a second course for the music major which is designed to teach the skills necessary for satisfactory completion of the piano proficiency examination. (UC, CSU)

MUSIC 38C Class Piano for Music Majors Units 1

Prerequisites: MUSIC 38B; concurrent enrollment in MUSIC 3A.

Limitations on Enrollment: None.

Advisories: None.

This course is a third course for the music major which is designed to teach the skills necessary for satisfactory completion of the piano proficiency examination. (UC, CSU)

MUSIC 38D Class Piano for Music Majors Units 1

Prerequisites: MUSIC 38C; concurrent enrollment in MUSIC 3A.

Limitations on Enrollment: None.

Advisories: None.

This course is a fourth course for the music major which is designed to teach the skills necessary for satisfactory completion of the piano proficiency examination. (UC, CSU)

MUSIC 40A Applied Music Units 1

Prerequisites: Completion of MUSIC 3D; or concurrent enrollment in MUSIC 3A, or 3B, or 3C, or 3D.

Limitations on Enrollment: Qualified performer.

Advisories: None.

This course is designed for individual, applied study of the student's principal performing medium and is an integral component for the developing musician. The course focuses on development of individual performance skills, as well as solo and orchestral repertoire for the first semester music major. The student completes a minimum of fifteen private lessons per semester and one hour of class instruction per week. (UC, CSU)

MUSIC 40B Applied Music Units 1

Prerequisites: Completion of MUSIC 40A; completion of MUSIC 3D or concurrent enrollment in MUSIC 3A or 3B or 3C or 3D.

Limitations on Enrollment: Qualified performer.

Advisories: None.

This course is designed for individual, applied study of the student's principal performing medium and is an integral component for the developing musician. The course focuses on development of individual performance skills, as well as solo and orchestral repertoire

for the second semester music major. The student completes a minimum of fifteen private lessons per semester and one hour of class instruction per week. (UC, CSU)

MUSIC 40C Applied Music Units 1

Prerequisites: Completion of MUSIC 40A; completion of MUSIC 3D or concurrent enrollment in MUSIC 3A or 3B or 3C or 3D.

Limitations on Enrollment: Qualified performer.

Advisories: None.

This course is designed for individual, applied study of the student's principal performing medium and is an integral component for the developing musician. The course focuses on development of individual performance skills, as well as solo and orchestral repertoire for the third semester music major. The student completes a minimum of fifteen private lessons per semester and one hour of class instruction per week. (UC, CSU)

MUSIC 40D Applied Music Units 1

Prerequisites: Completion of MUSIC 40C; completion of MUSIC 3D or concurrent enrollment in MUSIC 3A, or 3B, or 3C, or 3D.

Limitations on Enrollment: Qualified performer.

Advisories: None.

This course is designed for individual, applied study of the student's principal performing medium and is an integral component for the developing musician. The course focuses on development of individual performance skills, as well as solo and orchestral repertoire for the fourth semester music major. The student completes a minimum of fifteen private lessons per semester and one hour of class instruction per week. Students may receive credit in this course for a maximum of three semesters. (UC, CSU)

MUSIC 50H Special Studies: Music Units 1-2

Prerequisites: Completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.

Limitations on Enrollment: None.

Advisories: None.

This course is open to all students qualified to do advanced work in the field. The course includes research, directed reading, field work or other advanced study, and the course may be repeated for a maximum of four units. (UC, CSU)

MUSIC 51 Woodwind Ensemble Units 1

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to the rehearsal and performance of woodwind literature for various combinations of chamber ensembles such as duets, trios, and quartets. Emphasis includes sight reading and public performance. Students may receive credit for this course for a maximum of four semesters. (UC, CSU)

MUSIC 52 Brass Ensemble Units 1

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to rehearsal and performance of brass literature for various combinations of chamber ensembles such as duets, trios, and quartets. Emphasis includes sight reading and public performance. Students may receive credit for this course for a maximum of four semesters. (UC, CSU)

MUSIC 53 Percussion Ensemble Units 1

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to rehearsal and performance of percussion literature for various combinations of chamber ensembles such as duets, trios, and quartets. Emphasis includes sight reading and public performance. Students may receive credit for this course for a maximum of four semesters. (UC, CSU)

MUSIC 58 String Ensemble Units 1

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to rehearsal and performance of string literature for various combinations of chamber ensembles such as duets, trios, and quartets. Emphasis includes sight reading and public performance. Students may receive credit for this course for a maximum of four semesters. (UC, CSU)

MUSIC 61 Studio Band Units 1

Prerequisites: None.

Limitations on Enrollment: Qualified performer.

Advisories: None.

This course is dedicated to the rehearsal and performance of commercial band literature with emphasis on sight reading and public performance. Students may receive credit in this course for a maximum of four semesters. (UC, CSU)

MUSIC 63A Jazz Improvisation Units 1

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a first course dedicated to the theory and practice of the fundamentals of jazz improvisation. Emphasis includes development of performance skills, musicianship, jazz styles, and musical creativity. (UC, CSU)

MUSIC 63B Jazz Improvisation Units 1

Prerequisites: MUSIC 63A; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a second course dedicated to the theory and practice of the fundamentals of jazz improvisation. Emphasis includes development of performance skills, musicianship, jazz styles, and musical creativity. (UC, CSU)

MUSIC 63C Jazz Improvisation Units 1

Prerequisites: MUSIC 63B; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a third course dedicated to the theory and practice of the fundamentals of jazz improvisation. Emphasis includes development of performance skills, musicianship, jazz styles, and musical creativity. (UC, CSU)

MUSIC 63D Jazz Improvisation Units 1

Prerequisites: MUSIC 63C; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a fourth course dedicated to the theory and practice

of the fundamentals of jazz improvisation. Emphasis includes development of performance skills, musicianship, jazz styles, and musical creativity. (UC, CSU)

MUSIC 64 Jazz Combo Units 1

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is dedicated to rehearsal and performance of literature for small jazz combo. Included in the jazz combo are piano, bass, and drums as well as various other solo instruments. Emphasis includes improvisation, sight-reading, and performance. Students may receive credit for this course for a maximum of four semesters. (CSU)

MUSIC 80 Selected Topics: Music Units 1-2

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer instruction in one of the specialized areas of music not covered by existing curricula.

NATURAL RESOURCES

N R 1 Introduction to Forestry Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to acquaint students with the history of forestry and the lumber industry. Forest resources, management, and legislation are covered. Students study tree identification, timber use, mapping, cruising, and surveying. Career opportunities in forestry are emphasized. (UC, CSU)

N R 2 Conservation of Natural Resources Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to examine the need, importance, and philosophy of conservation of natural resources in our contemporary world. Human dependency on resources and an understanding of ecological principles and natural systems are emphasized. Topics include natural resource classification; history, importance, and methods of conservation; resource management issues; citizens' roles in conservation; and prospects for the future. Current environmental issues are discussed from local, national, and global perspectives. The course is designed to increase student awareness of the importance of conservation of natural resources as a social and behavioral science and to increase student participation in natural resource conservation. (UC, CSU)

N R 6 Introduction to Wildlife Management Units 4

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to cover the principles and techniques used in the production and management of waterfowl, big game, upland game, small game, and fish including selected identification, life

histories, ecology, and wildlife philosophy. (CSU)

N R 10 Introduction to Water Resources Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to cover the intelligent use of water conservation. Water development in California is emphasized along with supply and distribution problems. Fresh and waste water treatments are introduced. (CSU)

N R 50H Special Studies: Natural Resources Units 1-2

Prerequisites: Completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.

Limitations on Enrollment: None.

Advisories: None.

This course is open to students qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for a maximum of four units. (CSU)

N R 68 Applied Aquaculture Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enable students to understand the principles associated with rearing and marketing aquatic organisms and their relationship with small scale farming. Laboratory exercises provide students with hands on experiences. Specific areas covered include site selection, species selection, water quality and treatment, aquatic biology and ecology, nutrition, disease, stocking, harvesting, processing, marketing, and record keeping. (CSU)

N R 69 Introduction to Aquaculture Units 1.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enable students to understand the basic concepts of aquaculture and how they can be adapted to small scale farming. Specific areas covered are site, site development, water quality, fish selection, diseases, harvesting, and marketing. (CSU)

N R 75 Selected Topics: Natural Resources Units 1-2

Prerequisites: None; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer instruction in one of the specialized areas of natural resources not already covered by the existing curricula.

N R 94V Work Experience: Natural Resources Units 1-8

Prerequisites: None.

Limitations on Enrollment: The student must enroll in a course that is directly related to the natural resources work experience. The student must enroll in a minimum of 7 units during the semester including work experience units. For summer session, the student must