

San Joaquin Delta College Catalog 00 - 01

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CUL ART 15 Selected Topics: Culinary Arts 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 culinary arts not already covered by existing curricula. (CSU)

CUL ART 19 Advanced Quantity Food Preparation Units 6.5

Prerequisites: CUL ART 9.
Limitations on Enrollment: None.
Advisories: None.

This course is a survey of management principles of commercial food production and service. Students gain experience in the supervision of the Student Chef and kitchen production staff. (CSU)

CUL ART 25 Food Service Management Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to enable the student to study the principles of managing all types of commercial and institutional food service. Areas such as sales, promotion, advertising, personnel, legal aspects, and labor-management relations are covered. Styles of leadership are evaluated. Human relations and personnel management skills are discussed. (CSU)

CUL ART 27 Garde Manger Units 1.5

Prerequisites: None.
Limitation on Enrollment: None.
Advisories: None.

This course is about the artwork of the foodservice industry that blends aesthetic and practical aspects of food presentation. Salads, and sandwiches, buffet, buffet presentations are discussed. Advanced garde manger techniques for show pieces utilizing American Culinary Federation competition criteria are stressed. (CSU)

CUL ART 29 Beverage Management Units 1.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is the history of production, laws, responsibilities, and service of beverages. Emphasis is placed on beers, wines, liquors, coffees, teas, and non-alcoholic beverages. (CSU)

CUL ART 50H Special Studies: Culinary Arts Units 1-2

Prerequisites: Completion of entry level Culinary Arts courses with a grade of "B" or better.
Limitations on Enrollment: None.
Advisories: None.

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

CUL ART 70 Introduction to Ice Carving Units 0.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is an introduction to the basics of ice carving for the hospitality industry with an emphasis on safety, design, execution, movement, and display of sculptures suitable for hotels, caterers, and restaurants.

CUL ART 80 Selected Topics: Culinary Arts 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 culinary arts not already covered by existing curricula.

CUL ART 81 Hors D'Oeuvres Units 0.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to present information on preparing and serving hors d'oeuvres. Costing of prepared items, and limited actual production are included.

CUL ART 82 Garnishing and Food Presentation Units 0.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to address the design principles and preparation of fruit and vegetable garnishes used to enhance plate and platter presentations of food. A variety of garnishing techniques are discussed. Centerpiece preparation to enhance the presentation of foods is covered.

CUL ART 84 Restaurant Desserts Units 0.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide students with an understanding of the selection and preparation of food service desserts. Creativity, cost, difficulty of preparation, and service and taste of various desserts are analyzed. Lighter adaptations of dessert recipes are also included.

DANCE

DANCE 2 Selected Topics: Dance 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 dance not already covered by existing curricula. (UC, CSU)

DANCE 3A Beginning Choreography Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is the study of theory, psychology, and skills of dance. Practical application through class projects plus college and community performances directed by students are emphasized. (UC, CSU)

DANCE 3B Advanced Choreography Units 2

Prerequisites: DANCE 3A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the advanced elements of composition. Short studies in dance composition in relation to musical and dramatic forms are presented. Lectures, discussions, and demonstration are included. Practical application through class projects plus college and community performances directed by students are presented. (UC, CSU)

**DANCE 5A Introductory Production: Units 3
Repertory Company**

Prerequisites: Audition.

Limitations on Enrollment: None.

Advisories: None.

This course is an opportunity for students to learn choreography, staging, costuming, and presentation forms of dance. These performances include concerts in conjunction with other dance production classes and participation in drama productions as dancers. (UC, CSU)

**DANCE 5B Beginning Production: Units 3
Repertory Company**

Prerequisites: DANCE 5A or audition.

Limitations on Enrollment: None.

Advisories: None.

This course is an opportunity for students to learn a repertory of dances, direct and stage materials of various performance styles. These performances may include concerts in conjunction with other dance production classes and participation in drama productions as dancers. (UC, CSU)

**DANCE 5C Intermediate Production: Units 3
Repertory Company**

Prerequisites: DANCE 5B or audition.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide students with lectures, readings, and assignments designed specifically to develop styles, qualities, methods, and materials of various performance techniques. Emphasis is on learning a repertory of dances and performing on and off campus in a variety of settings. These performances include concerts in conjunction with other dance production classes and participation in drama productions as dancers. (UC, CSU)

**DANCE 5D Advanced Production: Units 3
Repertory Company**

Prerequisites: DANCE 5C or audition.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide students with lectures, readings, and assignments to develop advanced style theories, form methods, and materials of various performance techniques. Emphasis is on learning a repertory of dances and performing on and off campus in variety of settings. These performances include concerts in conjunction with other dance production classes and participation in drama productions as dancers. (UC, CSU)

**DANCE 5E Production and Repertory Units 3
Company**

Prerequisites: DANCE 5D; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide students with a series of lectures, readings, and assignments designed specifically to develop students' skills using advanced styles, theories, form methods, and materials of various performance techniques. Emphasis is on learning a repertory of dances and performing on and off campus in a variety of settings. These performances include concerts in conjunction with other dance production classes and participation in drama productions as dancers. (UC, CSU)

DANCE 6A Introductory Ballet Units 1.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to present the fundamental theory and practice of ballet techniques. Emphasis is placed on placement, body alignment, muscular control, and the development of vocabulary of basic ballet positions and steps. (UC, CSU)

DANCE 6B Beginning Ballet Units 1.5

Prerequisites: DANCE 6A.

Limitations on Enrollment: None.

Advisories: None.

This course is a review of the fundamental theory and practice of ballet techniques. In addition, material covered is universally accepted Grade 1. Combinations are stressed. (UC, CSU)

DANCE 7A Intermediate Ballet Units 1.5

Prerequisites: DANCE 6B.

Limitations on Enrollment: None.

Advisories: None.

This course is a review of the fundamental theory and practice of Grade 1 ballet techniques. In addition, material covered is universally accepted Grade 2. Combinations are stressed. (UC, CSU)

DANCE 7B Advanced Ballet Units 1.5

Prerequisites: DANCE 7A.

Limitations on Enrollment: None.

Advisories: None.

This course is a review of the fundamental theory and practice of Grade 2 ballet techniques. In addition, material covered is universally accepted Grades 3 and 4. More complex combinations and choreography are stressed. (UC, CSU)

DANCE 8A Introductory Modern Dance Units 1.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to condition students and to study the use of the body in rhythmic motion in some of the less complicated dances. Fundamental techniques are emphasized. Lectures and discussion are included. (UC, CSU)

DANCE 8B Beginning Modern Dance Units 1.5

Prerequisites: DANCE 8A.

Limitations on Enrollment: None.

Advisories: None.

This course is a study of techniques learned in the course including both pattern and creative dances. There are limited public performances. Lectures and discussions are included. (UC, CSU)

DANCE 8C Intermediate Modern Dance Units 1.5*Prerequisites: DANCE 8B.**Limitations on Enrollment: None.**Advisories: None.*

This course is a study of intermediate dance techniques and patterns. Creative dances are practiced with the express purpose of establishing individual and group dances for public performances. Lectures and discussions are included. (UC, CSU)

DANCE 8D Advanced Modern Dance Units 1.5*Prerequisites: DANCE 8C.**Limitations on Enrollment: None.**Advisories: None.*

This course is a study of advanced techniques, styles, and rhythms used in creative dances. These are practiced with the express purposes of establishing solo, individual, and group dances for public performances. Lectures and discussions are included. (UC, CSU)

DANCE 8E Introductory Jazz Dance Units 1.5*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is an introduction to standard jazz dance terminology, anatomy, primary stretches, isolations, port de bras, and fundamental jazz combinations. (UC, CSU)

DANCE 8F Beginning Jazz Dance Units 1.5*Prerequisites: DANCE 8E or equivalent.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to introduce students to standard beginning terminology, jazz dance techniques, and dance combinations. The course includes comparisons of modern jazz and rock techniques. (UC, CSU)

DANCE 8G Intermediate Jazz Dance Units 1.5*Prerequisites: DANCE 8F.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to introduce students to intermediate levels of technique and jazz dance combinations for performance level. (UC, CSU)

DANCE 8H Advanced Jazz Dance Units 1.5*Prerequisites: DANCE 8G.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to introduce students to advanced levels of technique and jazz dance combinations for performance levels. (UC, CSU)

DANCE 20A Introductory Theatre Dance and Movement Units 0.5-1*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to study the role of choreographed dance and the development of introductory skills and body agility necessary for participation in theatre productions. The course is offered in jazz and tap modes. (UC, CSU)

DANCE 20B Beginning Theatre Dance and Movement Units 0.5-1*Prerequisites: DANCE 20A.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to study the role of choreographed dance and the development of beginning skills, dance movements, techniques, and styles for participation in theatre productions. The course is offered in jazz and tap modes. (UC, CSU)

DANCE 20C Intermediate Theatre Dance and Movement Units 0.5-1*Prerequisites: DANCE 20B.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to study the role of choreographed dance and the variety of intermediate styles, rhythms, improvisations, techniques, and skills needed for participation in theatre production. (UC, CSU)

DANCE 20D Advanced Theatre Dance and Movement Units 0.5-1*Prerequisites: DANCE 20C.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to study the role of choreographed dance and the variety of advanced styles, rhythms, improvisations, techniques, and skills needed for participation in theatre production. (UC, CSU)

DANCE 50H Special Studies: Dance 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. (UC, CSU)

DANCE 80 Selected Topics: Dance 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 dance not already covered by existing curricula.

DEVELOPMENTAL EDUCATION

DV ED 15 Selected Topics: Learning Skills Units 1*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to meet the specific needs of students in the acquisition of learning skills in reading, study skills, writing, mathematics, and English as a Second Language (ESL). (CSU)

DV ED 75 Selected Topics: Learning Skills Units 1-2

Prerequisites: Reading level II or concurrent enrollment in reading.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to meet the specific needs of students in the acquisition of learning skills in reading, study skills, writing, mathematics, and English as a Second Language (ESL).

DV ED 76 Memory and Thinking Skills Units 2

Prerequisites: Reading level I or concurrent enrollment in reading level I.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to emphasize improving memory and thinking skills needed for success in content area studies.

**DV ED 78A Applied Mathematics Units 0.5-3
Laboratory**

Prerequisites: Concurrent enrollment in DV ED 86 A-D.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

**DV ED 78B Applied Mathematics Units 0.5-3
Laboratory**

Prerequisites: Concurrent enrollment in DV ED 86A-D.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

**DV ED 78C Applied Mathematics Units 0.5-3
Laboratory**

Prerequisites: Concurrent enrollment in DV ED 86A-D.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

**DV ED 78D Applied Mathematics Units 0.5-3
Laboratory**

Prerequisites: Concurrent enrollment in DV ED 86A-D.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

**DV ED 78E Applied Mathematics Units 0.5-3
Laboratory**

Prerequisites: Concurrent enrollment in DV ED 97A-D.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

DV ED 78F Applied Mathematics Laboratory Units 1

Prerequisites: Concurrent enrollment in DV ED 97A-D.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

DV ED 78G Applied Mathematics Laboratory Units 1

Prerequisites: Concurrent enrollment in BUS 82A-C.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem solving skills. Units earned in this course do not count toward the associate degree.

DV ED 78H Applied Mathematics Laboratory Units 1

Prerequisites: Concurrent enrollment in MATH 72.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

DV ED 78I Applied Mathematics Laboratory Units 1

Prerequisites: Concurrent enrollment in DV ED 87A-B.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

DV ED 78J Applied Mathematics Laboratory Units 1

Prerequisites: Concurrent enrollment in DV ED 87A-B.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

DV ED 78K Applied Mathematics Laboratory Units 0.5-3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individual diagnosis, prescription, and instruction to acquire mastery of the computational and problem-solving skills. This is an independent learning laboratory, and it may be taken for .5 to 3.0 units. This is an open entry/open exit course. Units earned in this course do not count toward the associate degree.

DV ED 78L Applied Mathematics Laboratory Units 0.5-3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. The laboratory course provides each student with individual diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. This is an independent learning laboratory, and it may be taken for .5 to 3.0 units. This is an open entry/open exit course. Units earned in this course do not count toward the associate degree.

DV ED 78M Applied Mathematics Laboratory Units 0.5-3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. The laboratory course provides each student with individual diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. This is an independent learning laboratory and it may be taken for .5 to 3.0 units. This is an open entry/open exit course. Units earned in this course do not count toward the associate degree.

DV ED 78N Applied Mathematics Laboratory Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. The laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

DV ED 78O Applied Mathematics Laboratory Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. The laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

DV ED 78P Applied Mathematics Laboratory Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a developmental approach to the acquisition of essential mathematical competencies. This laboratory course provides each student with individualized diagnosis, prescription, and instruction to acquire mastery of computational and problem-solving skills. Units earned in this course do not count toward the associate degree.

DV ED 86A Applied Basic Mathematics: Introduction Units 0.5

Prerequisites: Concurrent enrollment in DV ED 78 is required; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students to master problem solving using whole numbers at a 90 percent competency level. Units earned in this course do not count toward the associate degree.

DV ED 86B Applied Basic Mathematics: Beginning Units 0.5

Prerequisites: Concurrent enrollment in DV ED 78 is required; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students to master problem solving using decimal numbers at a 90 percent competency level. Units earned in this course do not count toward the associate degree.

DV ED 86C Applied Basic Mathematics: Intermediate Units 0.5

Prerequisites: Concurrent enrollment in DV ED 78 is required; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students to master problem solving using fraction numbers at a 90 percent competency level. Units earned in this course do not count toward the associate degree.

DV ED 86D Applied Basic Mathematics: Advanced Units 0.5

Prerequisites: Concurrent enrollment in DV ED 78 is required; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students to master problem solving using percent numbers at a 90 percent competency level. Units earned in this course do not count toward the associate degree.

DV ED 87A Survival Mathematics Units 0.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide vocabulary and problem solving skills necessary for competency in basic mathematics. DV ED 87A, and B is designed to provide ESL students with practical skill in measurement and money management with emphasis on the vocabulary and correct language usage needed to express number concepts. DV ED 87C, D, E, and F, Applied Math, is designed specifically to provide ESL students the prerequisite math competencies necessary for success in vocational and/or professional programs. This course is sequenced from whole numbers to percents inclusive of ratio/proportion, measurements, surfaces/shapes, and graphs/charts. Concurrent enrollment in DV ED 78I, J, A, B, C, D is required. Units earned in this course do not count toward the associate degree.

DV ED 87B Survival Mathematics Units 0.5

Prerequisites: Level 83 ESL proficiency.
Limitations on Enrollment: None.
Advisories: None.

This course is designed for students to master vocabulary, computation, problem solving, and measurement using fractions and percents. The course is taken concurrently with DV ED 78J. Units earned in this course do not count toward the associate degree.

DV ED 87C Survival Mathematics Units 0.5

Prerequisites: Level - ESL proficiency survival skills math is a math course utilizing demonstration experiences, and practice to provide students with competencies in the practical application of mathematics in daily living.
Limitations on Enrollment: None.
Advisories: None.

This course is a mathematics course utilizing demonstration experiences and practice to provide students with competencies in the practical application of mathematics in daily living.

DV ED 87D Survival Mathematics Units 0.5

Prerequisites: Level - ESL proficiency survival skills math is a math course utilizing demonstration experiences, and practice to provide students with competencies in the practical application of mathematics in daily living.
Limitations on Enrollment: None.
Advisories: None.

This course is a mathematics course utilizing demonstration experiences and practice to provide students with competencies in the practical application of mathematics in daily living.

DIESEL TECHNOLOGY

DIESEL 41 Heavy Duty Brakes Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide technical information and to develop skill in working on air brake systems. Basic instruction is provided through practical work on truck brake systems and related mock-ups in preparation for employment in the truck and diesel industry. (CSU)

DIESEL 42 Heavy Duty Power Trains Units 3.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide technical information and to develop skills in working on transmissions and clutches. Basic and advanced instruction is provided through practical work on truck transmissions and clutches used in today's modern trucks in preparation for employment in the truck and diesel industry. (CSU)

DIESEL 43 Heavy Duty Truck Components Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide technical information and to develop skills in working on differentials, steering systems, and suspension systems. Basic and advanced instruction is provided through practical work on truck components used in today's modern truck in preparation for employment in the truck and diesel industry. (CSU)

DIESEL 44 Diesel Engine Principles Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide technical information and to develop skills in working on engines and vehicle maintenance. Basic instruction is provided through practical work on diesel engines and related mock-ups in the preparation for employment in the truck and diesel industry. (CSU)

DIESEL 45 Diesel Engine Repair Units 4.5

Prerequisites: DIESEL 44 or concurrent enrollment in DIESEL 44.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to prepare the student to repair and replace components on diesel engines. The course provides advanced technical information addressing complete overhaul and testing of diesel engines used in different makes of trucks. (CSU)

DIESEL 46 Diesel Engine Fuel and Tune-Up Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide technical information and to develop skills in working on diesel fuel systems. Basic and advanced instruction is provided through practical work on diesel fuel pumps, injectors and engines in preparation for employment in the truck and diesel industry. (CSU)

DIESEL 47 Diesel Air Conditioning Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide technical information and to develop skills in working on diesel air conditioning systems. The course provides basic and advanced instruction through practical work on components used in today's modern equipment. (CSU)

DIESL 49 Computer Diagnosis and Troubleshooting Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None. This course is designed to provide technical information and to develop skills in working on diesel engine electronic controls. The operation, construction, and service procedures on various manufacturer in electronic fuel systems used in today's modern trucks is included. (CSU)

DIESL 69V Internship: Diesel Mechanics Units 1-8

Prerequisites: None.

Limitation on Enrollment: The student must enroll in a course that is directly related to the diesel mechanics 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 diesel mechanics. 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)

DIESL 75 Selected Topics: Diesel Technology 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 diesel technology not already covered by existing curricula.

DIESL 87A Diesel Specialization Units 1.5

Prerequisites: DIESL 41 or DIESL 44.

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

Advisories: None.

This course is designed for the advanced student in diesel technology. The student completes an advanced specialized project developed in consultation with the instructor.

DIESL 87B Diesel Specialization Units 3

Prerequisites: DIESL 41 or DIESL 44.

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

Advisories: None.

This course is designed for the advanced student in diesel technology. The student completes an advanced specialized project developed in consultation with the instructor.

DRAMATIC ARTS**DRAMA 1A Introductory Actor's Studio Units 6**

Prerequisites: DRAMA 19A.

Limitations on Enrollment: Qualified performer.

Advisories: None.

This course is designed as a practical, performance-oriented introduction to an integrated program of skills in actor training for the career-oriented drama students. Studies include basic principles of acting, improvisation, voice and movement dynamics, and beginning scene study. (UC, CSU)

DRAMA 1B Beginning Actor's Studio Units 6

Prerequisites: Completion of DRAMA 19A and DRAMA 1A and concurrent enrollment in DRAMA 19B or completion of DRAMA 19B.

Limitations on Enrollment: Qualified performer.

Advisories: None.

This course is designed to offer a further examination of an integrated program of beginning skills in actor training for the career-oriented acting student. Studies include audition techniques, beginning scene study, speech for the stage, and dialects. (UC, CSU)

DRAMA 1C Intermediate Actor's Studio Units 8

Prerequisites: Completion of DRAMA 19B and DRAMA 1B and concurrent enrollment in DRAMA 19C or completion of DRAMA 19C.

Limitations on Enrollment: Qualified performer.

Advisories: None.

This course is designed to introduce the career-oriented student to an integrated program of intermediate skills in actor training. Studies include intermediate audition techniques, Shakespeare scene study, intermediate scene study, and project work in one or more classic styles. (UC, CSU)

DRAMA 1D Advanced Actor's Studio Units 8

Prerequisites: Completion of DRAMA 19C and DRAMA 1C and concurrent enrollment in DRAMA 19D or completion of DRAMA 19D.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer a further examination of an integrated program of advanced skills in actor training for the career-oriented acting student. Studies include advanced scene study and projects, advanced audition techniques, and acting for the camera. (UC, CSU)

DRAMA 5 Selected Topics: Drama 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 drama not already covered by existing curricula. (UC, CSU)

DRAMA 6A Beginning Improvisational Theatre Units 2

Prerequisites: None.
Limitation on Enrollment: None.
Advisories: None.

This course is designed as an introduction to theatre games in which students learn to improvise a story, character, and setting. Students are able to create through pantomime as well as vocal techniques. The course culminates in an improvisational performance technique called "Harold." The course is designed for all students interested in the creative process whether in the visual arts, writing, performing arts, or education. (CSU)

DRAMA 6B Advanced Improvisational Theatre Units 2

Prerequisites: Completion of DRAMA 6A.
Limitation on Enrollment: None.
Advisories: None.

This course is designed as a continuation of theatre games in which students learn to improvise a story, character, and setting. The course culminates in an improvisational performance technique called "Harold." The course is designed for all students interested in the creative process whether in the visual arts, writing, performing arts, or education. (CSU)

DRAMA 10 Theatre Appreciation Units 3

Prerequisites: Reading level II.
Limitations on Enrollment: None.
Advisories: None.

This course is a survey course designed to develop an appreciation of theatre as an art form to include general nature of dramatic presentation, elements of dramatic structure, types of drama, and particular contributions of the actor, director, designers, technicians, and audience. (UC, CSU)

DRAMA 15A Make-Up for The Theatre Units 1.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is an introduction to the theory and techniques in the use of make-up for the theatre, such as straight, age, and character make-up, beard construction, and special effects. Laboratory sessions plus work on a make-up crew for college productions or a special project are conducted. (UC, CSU)

DRAMA 15B Advanced Make-Up for The Theatre Units 1.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is the application of the theory and techniques in the use of make-up for the theatre, such as straight, age, and character make-up, beard construction, and special effects. Laboratory sessions plus work on a make-up crew for college productions or a special project are conducted. (UC, CSU)

DRAMA 16A History of Theatre: Primitive to 1800 Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to introduce the physical structure, representative plays, practices, and theatre traditions from primitive times to the 1800s. (UC, CSU)

DRAMA 16B History of Theatre: 1800 to Present Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to introduce the scenic styles, theatre architecture, representative plays, practices and theatre traditions from 1800 to the present in Europe and America. Influences derived from the Asian theatre are also included. (UC, CSU)

DRAMA 17A Introductory Theatre Dance and Movement Units 0.5-1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to study the role of choreographed dance and the development of introductory skills and body agility necessary for participation in theatre productions. The course is offered in jazz and tap modes. (UC, CSU)

DRAMA 17B Beginning Theatre Dance and Movement Units 0.5-1

Prerequisites: DRAMA 17A.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to study the role of choreographed dance and the development of beginning skills, dance movements, techniques, and styles for participation in theatre productions. The course is offered in jazz and tap modes. (UC, CSU)

DRAMA 17C Intermediate Theatre Dance and Movement Units 0.5-1

Prerequisites: DRAMA 17B.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to study the role of choreographed dance and the variety of intermediate styles, rhythms, improvisations, techniques, and skills needed for participation in theater production. (UC, CSU)

DRAMA 17D Advanced Theatre Dance and Movement Units 0.5-1

Prerequisites: DRAMA 17C.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to study the role of choreographed dance and the variety of advanced styles, rhythms, improvisations, techniques, and skills needed for participation in theater production. (UC, CSU)

DRAMA 18A Beginning Fencing Units 1-1.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is the development of the basic skills and techniques of fencing with the three combative weapons of foil, epee, and sabre. The course covers developmental exercises with skills and techniques in formal competition. Drama and dance students find it valuable for mental and body discipline on the stage. (UC, CSU)

DRAMA 18B Intermediate Fencing Units 1-1.5

Prerequisites: DRAMA 18A.

Limitations on Enrollment: None.

Advisories: None.

This course is provided for the development of the intermediate skills and techniques of fencing with the three combative weapons of foil, epee, and sabre. The course covers developmental exercises with skills and techniques in formal competition. Drama and dance students find it valuable for mental and body discipline on the stage. (UC, CSU)

DRAMA 18C Advanced Fencing Units 1-1.5

Prerequisites: DRAMA 18B.

Limitations on Enrollment: None.

Advisories: None.

This course is provided for the development of the advanced skills and techniques of fencing with the three comparative weapons of foil, epee, and sabre. The course covers developmental exercise with skills and techniques in formal competition. Drama and dance students find it valuable for mental and body discipline on the stage. (UC, CSU)

DRAMA 19A Introductory Technical Theatre Workshop Units 2.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introductory lecture, demonstration and laboratory experience covering the technical phases of scenic, lighting, sound, and costume production including construction, cutting, sewing, painting, rigging, placement, and manipulation of stage scenery, lighting, sound properties, and selection of materials. Students study the aesthetics, practical applications, and the principles of set, sound, lighting, costume design, and construction. Crew work on production is required of students. (UC, CSU)

DRAMA 19B Beginning Technical Theatre Workshop Units 2.5

Prerequisites: DRAMA 19A.

Limitations on Enrollment: None.

Advisories: None.

This course is a beginning lecture, demonstration, and laboratory experience concerning all technical phases of scenic, lighting, sound, and costume production including construction, painting, rigging, introduction to design principles, color theory, fabrics, sound, properties, and selection of materials. Students further study the aesthetics, practical applications, and the principles of set, sound, lighting, and costume design as it applies to the actors performance. Crew work on productions is required of students. (UC, CSU)

DRAMA 19C Intermediate Technical Theatre Workshop Units 2.5

Prerequisites: DRAMA 19B.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey made through lecture, demonstration, and laboratory experience on all technical phases of scenic, lighting, sound, and costume production including design. Students gain additional knowledge of the principles of design as it specifically applies to the sets, properties, costumes, sound, and lighting. Students also gain knowledge of costume history, history of scenic techniques, and history as it applies to properties. Crew work on productions is required of students. (UC, CSU)

DRAMA 19D Advanced Technical Theatre Workshop Units 2.5

Prerequisites: DRAMA 19C.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey made through lecture, demonstration, and laboratory experience on all technical phases of scene and costume production including construction, painting, rigging, placement, and manipulation of stage scenery, lighting equipment, sound, properties, and selection of materials. Students gain knowledge of all directorial concepts as it specifically applies to the design of sets, properties, costumes, sound, and lighting. Crew work on productions is required of students. (UC, CSU)

DRAMA 22 Scene Design Units 3

Prerequisites: DRAMA 20A.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of a scenic design for the theatre from the time of the Greeks to the present. The course is an introduction to basic design problems for the stage. There is training in model building, rendering, and structural drawing. Work on college productions is required. (UC, CSU)

DRAMA 23 Costuming Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a beginning course in custom construction, fabrics, wardrobe plotting, and historical styles. (UC, CSU)

DRAMA 25A Applied Dramatic Art Units 1-3

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is for rehearsal, performance, and crew work for public performance. The course includes all phases of production, acting, technical staff, and house management. Emphasis is placed on individual initiative, dependability, development, and participation. (UC, CSU)

DRAMA 25B Applied Dramatic Art Units 1-3

Prerequisites: DRAMA 25A; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a continuation of rehearsal, performance, and crew work for public performance. The course includes all phases of production, acting, technical staff, and house management. Emphasis is placed on individual initiative, dependability, development, and participation. (UC, CSU)

DRAMA 25C Applied Dramatic Art Units 1-3

Prerequisites: DRAMA 25B; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is for intermediate rehearsal, performance, and crew work for public performance. The course includes all phases of production, acting, technical staff, and house management. Emphasis is placed on individual initiative, dependability, development, and participation. (UC, CSU)

DRAMA 25D Applied Dramatic Art Units 1-3

Prerequisites: DRAMA 25C; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is for advanced rehearsal, performance, and crew work for public performance. The course includes all phases of production, acting, technical staff, and house management. Emphasis is placed on individual initiative, dependability, development, and participation. (UC, CSU)

DRAMA 25E Applied Dramatic Art Units 1-3

Prerequisites: DRAMA 25D; concurrent enrollment in DRAMA 1 or completion of DRAMA 10; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for advance rehearsal, performance, and crew work for public performance. The course includes all phases of production, acting, technical staff, and house management. Emphasis is placed on individual initiative, dependability, development, and participation. (UC, CSU)

DRAMA 26A Repertory Theatre Workshop Units 2

Prerequisites: Audition.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to rehearsal, performance, and crew work where emphasis is placed on solving the problems of production by preparation of several plays or musicals for public performance. (UC, CSU)

DRAMA 26B Repertory Theatre Workshop Units 2

Prerequisites: DRAMA 26A; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a beginning course in rehearsal, performance, and crew work where emphasis is placed on solving the problems of production by preparation of several plays or musicals for public performance. (UC, CSU)

DRAMA 26C Repertory Theatre Workshop Units 2

Prerequisites: DRAMA 26B; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is an intermediate course in rehearsal, performance, and crew work where emphasis is placed on solving the problems of production by preparation of several plays or musicals for public performance. (UC, CSU)

DRAMA 26D Repertory Theatre Workshop Units 2

Prerequisites: DRAMA 26C or audition.

Limitations on Enrollment: None.

Advisories: None.

This course is a culminating course in rehearsal, performance, and crew work where emphasis is placed on solving the problems of production by preparation of several plays for public performance. (UC, CSU)

DRAMA 26E Repertory Theatre Workshop Units 2

Prerequisites: DRAMA 26D; concurrent enrollment in DRAMA 1 or completion of DRAMA 1D; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a culminating course in rehearsal, performance, and crew work where emphasis is placed on solving the problems of production by preparation of several plays or musicals for public performance. (UC, CSU)

DRAMA 28A Musical Revue Cabaret Theatre Units 1.5

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a course in musical theatre which gives an overview of the development of the musical and cabaret review performance historically, musically, and dramatically, and its application to vaudeville and the more intimate contemporary form, the cabaret act. Culminating activities include selection preparation, and performance of selected sketches, musical numbers, and dancing with appropriate narrative. (CSU)

DRAMA 28B Musical Revue Cabaret Theatre Units 1.5

Prerequisites: DRAMA 28A; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a course in musical theatre which informally reviews the development of the musical and cabaret performance and its application to vaudeville and the more intimate contemporary form, the cabaret act. Culminating activities include selection, preparation, and performance of selected sketches, musical numbers, and dancing with appropriate narrative dealing with the 1910-20 genre. (CSU)

DRAMA 28C Musical Revue Cabaret Theatre Units 1.5

Prerequisites: DRAMA 28B; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a course in musical theatre which focuses on the different aspects of cabaret and musical revue. Culminating activities include preparation, and performance of selected sketches including an original sketch by students and organizing food and service for the audience. Special emphasis is given to comedy sketches and their writing and performance. (CSU)

DRAMA 28D Musical Revue Cabaret Theatre Units 1.5

Prerequisites: DRAMA 28C; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a course in musical theatre which gives students opportunity to develop solo and scripted materials for cabaret and musical revue performances. Culminating activities include selection, preparation, and performance of selected sketches, musical numbers, and dancing with an emphasis on single person presentations. Writing of original narrative and scripts is required. (UC, CSU)

DRAMA 30 Theatre Production Planning Units 3

Prerequisites: DRAMA 33A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to teach students to successfully plan, schedule, and present a theatre event. Students make decisions in regards to the many areas i.e., financing, performers, designers, and technicians involved in mounting a theatrical production. As a final project, students present a written production planning report on a selected play. (CSU)

DRAMA 31A Beginning Principles and Practices of Acting Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce basic principles of acting including improvisation, characterization development, rehearsal process and basic stage terminology culminating in scene work and audition techniques. (UC, CSU, CAN DRAMA8)

DRAMA 31B Advanced Principles and Practices of Acting Units 3

Prerequisites: Completion of DRAMA 31A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to develop a firm foundation in advanced acting techniques. Emphasis is placed on improvisation and scene work. (UC, CSU)

DRAMA 37 Theatre Management and Promotion Units 2.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to present principles of organization, operation, and administration of educational, community and professional theatre as well as box office operations, production accounting, ticket sales, house management and promotional media. Supervised experience in developing drama publicity materials, box office operations, and house management is emphasized. (CSU)

DRAMA 44A Introductory Children's Theatre Units 4

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for introductory play selection, acting, movement, rehearsal, and a public performance for a children's audience. (CSU)

DRAMA 44B Beginning Children's Theatre Units 4

Prerequisites: DRAMA 44A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for beginning play selection, acting, movement, rehearsal, and a public performance for a children's audience. (CSU)

DRAMA 44C Intermediate Children's Theatre Units 4

Prerequisites: DRAMA 44B.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for intermediate play selection, acting, movement, rehearsal, and a public performance for a children's audience. (CSU)

DRAMA 44D Advanced Children's Theatre Units 4

Prerequisites: DRAMA 44C.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for advanced play selection, acting, movement, rehearsal, and public performance for a children's audience. (CSU)

DRAMA 47A Musical Theatre Workshop Units 3

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to teach students how to perform in the genre of musical theatre. Emphasis is placed on learning how to make believable transitions in characterizations from acting, to singing, and to dancing. History and styles of musicals are included. The course is not designed to teach the basic elements of acting, singing, or dancing, but rather how to coordinate them. (UC, CSU)

DRAMA 47B Musical Theatre Workshop Units 3

Prerequisites: DRAMA 47A; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a continuation of the theory and techniques used to perform in the genre of musical theatre. Emphasis is placed on learning how to make believable transitions in characterizations from acting, to singing, to dancing. History and styles of musicals are included. The course is not designed to teach the basic elements of acting, singing, or dancing, but rather how to coordinate them. (UC, CSU)

DRAMA 47C Musical Theatre Workshop Units 3

Prerequisites: DRAMA 47B; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a continuation of the theory and techniques used to perform in the genre of musical theatre. Emphasis is placed on learning how to make believable transitions in characterizations from acting, to singing, to dancing. History and styles of musicals are included. The course is not designed to teach the basic elements of acting, singing, or dancing, but rather how to coordinate them. (UC, CSU)

DRAMA 47D Musical Theatre Workshop Units 3

Prerequisites: DRAMA 47C; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a continuation of the theory and techniques used to perform in the genre of musical theatre. The emphasis is placed on learning how to make believable transition in characterizations from acting, to singing, to dancing. History and styles of musicals are included. The course is not designed to teach the basic elements of acting, singing, or dancing, but rather how to coordinate them. (UC, CSU)

DRAMA 47E Musical Theatre Workshop Units 3

Prerequisites: DRAMA 47D; concurrent enrollment in DRAMA 1 or completion of DRAMA 1D; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is a continuation of the theory and techniques used to perform in the genre of musical theatre. Emphasis is placed on learning how to make believable transitions in characterizations from acting, to singing, to dancing. History and styles of musicals are included. The course is not designed to teach the basic elements of acting, singing, or dancing, but rather how to coordinate them. (UC, CSU)

DRAMA 48A Beginning Creative Dramatics Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed as a beginning process by which original dramatizations are developed with children through work in storytelling, characterization activities, theatre games, and other dramatic forms. Observations, student teaching with children, and participation in group assignments characterize the activities of the course. The course is designed for future teachers and early childhood majors. (CSU)

DRAMA 48B Advanced Creative Dramatics Units 3

Prerequisites: DRAMA 48A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed as an advanced process by which or developing original dramatizations are developed with children through work in storytelling, characterization activities, theatre games, and other dramatic forms. Observations, student teaching with children, and participation in group assignments characterize the activities of the course. The course is designed for future teachers and early childhood majors. (CSU)

DRAMA 49A Summer Musical Units 3
Theatre Production

Prerequisites: Qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to give students instruction in all areas of musical theatre including auditioning, acting, singing, dancing, and technical production culminating in a complete production. (UC, CSU)

DRAMA 49B Summer Musical Units 3
Theatre Production

Prerequisites: DRAMA 49A; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to give students instruction in all areas of musical theatre including auditioning, acting, singing, dancing, and technical production culminating in a complete production. (UC,CSU)

DRAMA 49D Summer Musical Units 3
Theatre Production

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to give students opportunities for advanced experience in all areas of musical theatre including auditioning, acting, singing, dancing, and technical production culminating in a complete production with special emphasis for organization of the technical aspects of producing a musical. (UC, CSU)

DRAMA 49E Summer Musical Units 3
Theatre Production

Prerequisites: DRAMA 49D; concurrent enrollment in DRAMA 1 or completion of DRAMA 1D; qualified performer.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to give students opportunities for advanced experience in all areas of musical theatre including auditioning, acting, singing, dancing, and technical production culminating in a complete production with special emphasis for organization of the technical aspects of producing a musical. (UC, CSU)

DRAMA 50A Special Studies: Drama Units 1-2

Prerequisites: Completion of DRAMA 16A or DRAMA 16B with 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 designed so a qualified student may do advanced work in drama. The course includes research, directed reading, field work, or other advanced study, and it may be repeated for a maximum of four units. (UC, CSU)

DRAMA 50B Special Studies: Directing Units 1-2

Prerequisites: Completion of DRAMA 16A or DRAMA 16B with 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 designed so a qualified student may do advanced work in directing. The course includes research, directed reading, field work, or other advanced study, and it may be repeated for a maximum of 4 units. (UC, CSU)

**DRAMA 50C Special Studies: Units 1-2
Technical Theatre**

Prerequisites: Completion of DRAMA 19A course with 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 designed so a qualified student may do advanced work in technical theatre. The course includes research, directed reading, field work, or other advanced study, and it may be repeated for a maximum of 4 units. (UC, CSU)

DRAMA 50D Special Studies: Dance Units 1-2

Prerequisites: Completion of DRAMA 17A with grade of "B" or better; and presentation of a project acceptable to instructor and Division Chairperson.

Limitations on Enrollment: None.

Advisories: None.

This course is designed so a qualified student may do advanced work in dance. The course includes research, directed reading, field work, or other advanced study, and it may be repeated for a maximum of four units. (UC, CSU)

**DRAMA 50E Special Studies: Units 1-2
House/Box Office Management**

Prerequisites: Completion of DRAMA 16A or DRAMA 16B 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 is designed so a qualified student may do advanced work in the house/box office management. 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)

DRAMA 50F Special Studies: Playwriting Units 1-2

Prerequisites: Completion of DRAMA 16A or DRAMA 16B 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 so a qualified student may do advanced work in playwriting. The course includes research, directed reading, field work, or other advanced study, and it may be repeated for maximum of four units. (CSU)

DRAMA 50G Special Studies: Acting 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 so a qualified student may do advanced work in the acting. The course includes research, directed reading, field work, or other advanced study, and it may be repeated for a maximum of four units. (CSU)

DRAMA 50H Special Studies: Costuming Units 1-2

Prerequisites: Completion of DRAMA 19A 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 so a qualified student may do advanced work in costuming. The course includes research, directed reading, field work, or other advanced study, and it may be repeated for a maximum of four units. (UC, CSU)

DRAMA 80 Selected Topics: Drama 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 drama not already covered by existing curricula.

ECONOMICS

ECON 1A Principles of Economics: Macro Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for majors in economics, business, or social science. The course centers around macroeconomics which is the study of aggregates of firms, households, prices, wages, and income. (UC, CSU, CAN ECON 2)

ECON 1B Principles of Economics: Micro Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introductory course and it is recommended for economics, business, or social science majors. The course deals with micro-economics which is the study of individual firms, households, prices, wages, and income. (UC, CSU, CAN ECON 4)

ECON 15 Selected Topics: Economics Units 0.5-1

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

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

ECON 50H Special Studies: Economics Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; Economics 1A or 1B with 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)

EDUCATION

EDUC 10 Introduction to Education Units 3-4

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed as an exploration of the field of education for anyone interested in learning about the educational system. Particular emphasis is placed upon learning to understand the educational system in California. When taken for four units, the course includes thirty-five hours of early field experience required for a California credential. (CSU)

ELECTRICAL TECHNOLOGY

ELEC 30 Fundamentals of Electricity Units 5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to present the fundamental working principles of electricity and magnetism through study and a series of experiments. Students learn to develop skills in reading meters and circuit construction and to understand Ohms Law and its application. (CSU)

ELEC 31 Electrical Wiring Methods Units 7

Prerequisites: ELEC 30, or ELECT 11, or ELECT 12.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to cover the theory and skills involved in planning and installing nonmetallic-sheathed cable, electrical metallic tube, and rigid conduit. Other areas covered include computations, building of electrical services, grounding, and electrical safety. (CSU)

ELEC 32 Electrical Motors Units 5

Prerequisites: ELEC 30 or ELECT 11.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the theory of DC motors, AC motors, and alternators. (CSU)

ELEC 33 Industrial Wiring Methods Units 5

Prerequisites: ELEC 30 or ELECT 11.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to teach the application of wiring methods, controls, and machines in commercial and industrial situations. The code and theory covering such applications are covered. (CSU)

ELEC 34 Advanced Motors and Controls Units 5

Prerequisites: ELECT 11 or ELEC 30.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to present the theory and advanced application of DC motors and controls and the advanced application of AC motors and three-phase alternators. Single-phase transformers, three-phase transformers, and control (ladder) diagrams are discussed. (CSU)

ELEC 75 Selected Topics: Electrical Technology 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 electrical technology not already covered by existing curricula.

ELEC 87A Electrical Specialization Units 3-4

Prerequisites: ELEC 33 or ELEC 34.

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

Advisories: None.

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

ELEC 87B Electrical Technology Specialization Units 5

Prerequisites: ELEC 32B or equivalent.

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 electrical trade. The work covered is developed between the student and the instructor at the beginning of the course.

ELECTRICAL TECHNOLOGY: APPRENTICESHIP

A-ELE 70A Introduction to Electricity Units 4

Prerequisites: None.

Limitation on Enrollment: Indentured Apprentice.

Advisories: None.

This course is designed to provide students with the knowledge of the fundamentals of electricity including safety, introduction to electricity, and careers in the electrical field.

A-ELE 70B Electrical Fundamentals Units 4

Prerequisites: None.

Limitation on Enrollment: Indentured Apprentice.

Advisories: None.

This course is designed to provide students with the knowledge of the fundamentals of combination circuits, conductors, insulators, and electrical print reading.

A-ELE 71A Electrical Circuits and Code Units 4

Prerequisites: None.

Limitation on Enrollment: Indentured Apprentice.

Advisories: None.

This course is designed to provide students with the knowledge of the fundamentals of the National Electrical Code requirements, alternating current principles, alternating circuits, wire characteristics, and conduit bending.

A-ELE 71B Electrical Circuits and Equipment Units 4

Prerequisites: None.

Limitation on Enrollment: Indentured Apprentice.

Advisories: None.

This course is designed to provide students with the knowledge of the fundamentals of electrical test equipment, inductance, capacitance, transformers, and commercial construction drawings.

A-ELE 72A Electrical Motors Units 4

Prerequisites: None.

Limitation on Enrollment: Indentured Apprentice.

Advisories: None.

This course is designed to provide students with the knowledge of the fundamentals of electrical grounding, resonance circuits, high and low voltage wiring systems and electrical motors.

A-ELE 72B Electrical Motor Control Systems Units 4

Prerequisites: None.

Limitation on Enrollment: Indentured Apprentice.

Advisories: None.

This course is designed to provide students with the knowledge of the fundamentals of three-phase transformers, direct current motors, motor starters, control systems, air conditioning and refrigeration systems.

A-ELE 73A Electrical Motor Control Circuits Units 4

Prerequisites: None.

Limitation on Enrollment: Indentured Apprentice.

Advisories: None.

This course is designed to provide students with advanced knowledge of electricity, motor controls, semiconductors, electronic devices, and refrigeration system installation.

A-ELE 73B Programmable Logic Controllers Units 4

Prerequisites: None.

Limitation on Enrollment: Indentured Apprentice.

Advisories: None.

This course is designed to provide students with the knowledge of the fundamentals of electronic devices, digital logic circuits, process control, and programmable logic controllers.

A-ELE 74A Motor Control Systems Units 4

Prerequisites: None.

Limitation on Enrollment: Indentured Apprentice.

Advisories: None.

This course is designed to provide students with a working knowledge of programmable logic controllers, their installation, operation and programming.

A-ELE 75A Basic Electricity Units 2

Prerequisites: None.

Limitations on Enrollment: Indentured apprentice.

Advisories: None.

This course is designed to provide a background in basic electricity. The course includes theory and applications of electricity, Ohms Law, magnetism, power and circuits.

A-ELE 75B Advanced Electricity Units 2

Prerequisites: None.

Limitations on Enrollment: Indentured apprentice.

Advisories: None.

This course is designed to provide a background in the theory and application of advanced electricity. Topics included are alternating current, inductance, capacitance, transformers, circuits, and vectors related to motor and generators.

A-ELE 75C Transformers and Polychlorinated Biphenyl Units 2

Prerequisites: None.

Limitations on Enrollment: Indentured apprentice.

Advisories: None.

This course is designed to includes the theory and advanced application of transformers, power circuit breakers, electrical controls and print reading.

A-ELE 75D Protective Relaying Units 2

Prerequisites: None.

Limitations on Enrollment: Indentured Apprentice.

Advisories: None.

This course is an introduction to the theories and skills involved in basic power system protective relay design and operation.

A-ELE 75E High Voltage Switching Units 2

Prerequisites: None.

Limitations on Enrollment: Indentured apprentice.

Advisories: None.

This course is designed for students to acquire the knowledge necessary to perform high voltage switching (12,000 volts and above). Emphasis will be placed on theory and hands-on application.

A-ELE 75F Electrical Motors and Controls Units 2

Prerequisites: None.

Limitations on Enrollment: Indentured apprentice.

Advisories: None.

This course is designed to present the application of wiring methods and control circuit design for power plants. The course includes interpreting electrical schematics, wiring diagrams, and troubleshooting control circuits.

ELECTRON MICROSCOPY

E M 11 Photography for Laboratory Technicians Units 2

Prerequisites: E M 21 or concurrent enrollment in E M 21.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for those students who wish to become laboratory technicians using photography as part of their work. Emphasis is placed on photography related to the optical microscope and electron microscope as used in medical, scientific, and industrial areas. (CSU)

E M 15 Selected Topics: Electron Microscopy 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 electron microscopy not already covered by existing curricula. (CSU)

E M 21 Introductory Techniques for Electron Microscopy Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a beginning electron microscopy lecture and laboratory course dealing with the alignment and operation of the transmission electron microscope (TEM) as well as the preparation of particles and replicas for viewing on the TEM. The course includes individual training in the use of the TEM and techniques for photography. (CSU)

E M 22 Ultramicrotomy for Electron Microscopy Units 4.5

Prerequisites: EM 21 with a grade of "C" or better or concurrent enrollment in EM 21.

Limitations on Enrollment: None.

Advisories: None.

This course is a lecture and laboratory course which covers standard methods of preparing TEM (Transmission Electron Microscope) samples by ultramicrotomy. (CSU)

E M 28 Biological Ultrastructure Units 2

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

Limitations on Enrollment: None.

Advisories: None.

This course is designed to present specific information about the fine structure and function of cells and tissues at the ultrastructure level. Videos, slides, and micrograph examination are correlated with lectures so that students learn to recognize the fine structure of cells and tissues. (CSU)

E M 30 Current Microscopies: Optics, Theory, and Application Units 3

Prerequisites: EM 21 and PHYSICS 10, both with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide information related to the physical laws and applications of the various types of current microscopies. (CSU)

E M 34 Introduction to Materials Electron Microscopy Units 4

Prerequisites: EM 21 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a lecture and laboratory course covering the areas of fractography, integrated circuits, and thin foil preparation. (CSU)

E M 35 Physical Electron Microscopy Laboratory Units 3.5

Prerequisites: Completion of EM 21 and EM 34 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a lecture and laboratory course covering preparation, handling, and examinations of thin film electron transmission samples of metals. The course also covers interpretation of electron micrograph images and reciprocal lattice patterns in terms of electron diffraction in crystals. (CSU)

E M 37 Advanced Techniques in Biological Electron Microscopy Units 3.5

Prerequisites: EM 21 and 22 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a lecture and laboratory course which covers advanced techniques for biological specimen preparation in transmission electron microscopy (TEM). (CSU)

E M 38 Scanning Electron Microscopy Units 3

Prerequisites: EM 21 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide students with techniques necessary to prepare specimens, both organic and inorganic, for the scanning electron microscope. Students become familiar with the operating modes of the scanning electron microscope and the energy dispersive X-ray system. High resolution systems and computer imaging constitute part of the course. (CSU)

E M 39 Advanced Biological Scanning Electron Microscopy Units 2

Prerequisites: EM 38 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a lecture and laboratory course which cover advanced preparation methods for biological specimens for observation in the scanning electron microscope (SEM). (CSU)

E M 41 Analytical Scanning Electron Microscopy Units 3

Prerequisites: EM 38 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an advanced course in scanning electron microscopy. The course places emphasis on elemental analysis with both energy and wave-length dispersive systems as done on the scanning electron microscope. Quantitative computer assisted analysis constitutes a segment of the course. (CSU)

E M 50H Special Studies: Electron Microscopy Units 1-2

Prerequisites: EM 35 or EM 37 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is available to qualified students who wish to explore further some phase of electron microscopy either in the biological or metallurgical field. Consent of the instructor and division chairperson is required. (CSU)

E M 53 Electron Microscopy Equipment Maintenance Units 3

Prerequisites: EM 38 with a grade of "C" or better or concurrent enrollment in EM 38.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide information and training related to the upkeep and everyday maintenance of equipment usually found in an electron microscope laboratory. (CSU)

E M 58 Digital Imaging for Microscopy Units 2

Prerequisites: EM 21, CS 18B, and Math 80 all with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is a lecture and laboratory course which provides information and training related to digitizing, processing, measuring, and analyzing images specifically related to microscopy applications. Field trips are required. (CSU)

E M 59 Advanced Projects in Electron Microscopy Units 2

Prerequisites: E M 35 or 37 with a grade of "C" or better, and None.

Limitations on Enrollment: None.

Advisories: None.

This course is a lecture and laboratory course which includes special studies involving advanced concepts for electron microscopy. Field trips may be required. (CSU)

E M 60 Transmission Electron Microscope (TEM) Alignment and Use Units 2

Prerequisites: E M 21 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an advanced electron microscopy lecture and laboratory course specifically dealing with the alignment and operation of the transmission electron microscope (TEM). (CSU)

E M 61 Scanning Electron Microscope (SEM) Alignment and Use Units 2

Prerequisites: E M 38 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an advanced electron microscopy lecture and laboratory course specifically dealing with the alignment and advanced operation of the scanning electron microscope (SEM). (CSU)

E M 62 Focused Ion Beam (FIB) Operation and Use Units 2

Prerequisites: E M 38 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an advanced microscopy lecture and laboratory course specifically dealing with the alignment and operation of the focused ion beam (FIB) instrument. (CSU)

E M 75 Selected Topics: Electron Microscopy 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 electron microscopy not already covered by existing curricula.

E M 79 Applied Microscopy Principles Units 1-3

Prerequisites: E M 21 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to prepare students to help other students in hands-on microscopy procedures. Students learn how to assist other students in "hands on" applications. Students perform as microscopy laboratory assistants applying learned material and performing various microscopy-related tasks as directed by an instructor or lab supervisor. This course may be repeated up to a total of 6 units.

ELECTRONIC TECHNOLOGY

ELECT 10 Fundamentals of Electronics Units 2.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the theory and practical knowledge necessary for students to enter the electronics program. (CSU)

ELECT 11 AC and DC Network Analysis Units 4.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to present the passive components in electronics from atomic structure through resonance. Laboratory exercises are utilized to familiarize students with basic electronics test equipment and simple DC and AC circuits. (CSU)

ELECT 12 Solid State Devices Units 6

Prerequisites: ELECT 11.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to present the theory, operation, and application of solid-state devices. The course stresses the application of bipolar transistors, field effect transistors, opto-devices, and the thyristor family in rectifier amplifiers, detectors, and other basic systems. Laboratory exercises are utilized to reinforce the theory. (CSU)

ELECT 13A Integrated Circuits Units 4.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce digital devices and their applications. The student explores a variety of digital devices, learns the theory and application of the major groups, and prepares for advancement to microprocessors and microcomputer training. (CSU)

ELECT 14A Electronic Troubleshooting Units 3

Prerequisites: ELECT 11.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the practical repair of electronic equipment. Topics include trouble-shooting, disassembly and assembly, soldering, parts ordering, and the writing of maintenance reports. (CSU)

ELECT 14B Advanced Electronics Troubleshooting Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to continue the development of identified skills necessary for troubleshooting electronics equipment through self-study and hands-on experience. (CSU)

ELECT 14C Troubleshooting Computers Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to introduce the skills necessary to troubleshoot computers through self-study and hands-on experience. (CSU)

ELECT 15 Selected Topics: Electronics Technology 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 electronics technology not already covered by existing curricula. (CSU)

ELECT 16 Introduction to Microprocessors Units 4

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to be an entry level study of the microprocessor and its relationship to all parts of the computer. The student learns the architecture of the processor and the necessary machine language to control all functions. Peripheral hardware and interface techniques are introduced through laboratory experimentation. Industrial process control is developed as a teaching medium to give application to the principles learned. (CSU)

ELECT 50H Special Studies: Electronics Technology Units 1-2

Prerequisites: ELECT 11, 12, and 13.
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)

ELECT 77A Basic Electronic Computer Networks Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to prepare the student to identify the major components of the network system, understand the Open System Interconnection (OSI) model, and create subnets.

ELECT 77B Fundamental Electronic Computer Networks Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to prepare the student to understand router functions, protocols, gateways, industry standards, topologies, and system cabling.

ELECT 77C Intermediate Electronic Computer Networks Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to prepare the student to control reliability factors, evaluate advantages of routing methodology, discern distance vectors, and control static and dynamic routing decisions.

ELECT 77D Advanced Electronic Computer Networks Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to prepare the student to solve Local Area Network (LAN) design problems, configure routers, understand router commands, utilize Transmission Control Protocol/Internet Protocol (TCP/IP) addressing, integrate diverse topologies, and overcome adverse network environments.

ELECT 77E Basic Electronic Network Systems Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to prepare the student to describe, configure, and control the Novell Internetworking Packet Exchange (IPX) operations of a router. Local Area Network (LAN) are segmented by use of bridges, routers, and switches.

ELECT 77F Fundamental Electronic Network Systems Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to prepare the student to describe, configure, and control: full and half-duplex ethernet, segmentation by bridge, segmentation by router, segmentation by switch, fast ethernet, cut-through, switching, store and forward switching, spanning tree protocol, and virtual Local Area Network (LAN).

ELECT 77G Intermediate Electronic Network Systems Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to prepare the student to describe, configure, and control: Wide Area Networks (WAN) Services, Link Access Procedure Balanced (LAPB), Frame Relay, Integrated Service Digital Network/Link Access Protocol on the "D" channel (ISDN/LAPD), High-level Data Link Control (HDLC), Point-to-Point Protocol (PPP), and Dial on Demand Routing (DDR), Frame Relay terms, Frame Relay Commands, Local Management Interface (LMI), map subinterfaces, and monitor frame relay operations on a router.

ELECT 77H Advanced Electronic Network Systems Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to prepare the student to describe, configure, and control: Point-to-Point Protocol (PPP) operations, Point-to-Point Protocol (PPP) encapsulation of Wide Area Network (WAN) data, Integrated Service Digital Network (ISDN) networking, Integrated Service Digital Network (ISDN) protocols, Integrated Service Digital Network (ISDN) function groups, Cisco implementation of Integrated Service Digital Network/Basic Rate Interface (ISDN/BRI).

ENGINEERING

ENGR 1 Introduction to Engineering and Technology Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the engineering profession and processes used by engineers and technologists. Computer applications are used to demonstrate the problem-solving techniques used by engineers and technologists. This course is designed for all students considering career possibilities in engineering and/or engineering technology. (UC, CSU)

ENGR 2 Engineering Graphics Units 3

Prerequisites: ETECH 12 and ETECH 13, both with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to present the principles of orthographic drawing, descriptive geometry applications, and graphical analysis. The student demonstrates documentation of engineering problems using freehand drawing, computer-aided drafting, and three-dimensional modeling. (UC, CSU, CAN ENGR 2)

ENGR 4 Engineering Materials Units 3

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

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the properties of engineering materials and their relation to the internal structure of materials. Topics include atomic structure and bonding, crystalline structures, phases and phase diagrams, metals, polymers, ceramics, composites, mechanical deformation and fracture, structural control and influence of properties, and materials naming and designating systems as well as exposure to the corrosive, electrical, and magnetic properties of materials. (UC, CSU, CAN ENGR 4)

ENGR 6 Engineering Circuit Analysis Units 4

Prerequisites: MATH 4 and PHYSICS 4C or concurrent enrollment.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to emphasize the solution of equations arising from the applications of Kirchhoff's Laws and Thevenin's Theorem to direct current (DC) and alternating current (AC) circuits. Topics include mesh and nodal analysis, periodic forcing functions, phasors, frequency response, natural and complete response, dependent sources, and the characteristics of operational amplifiers. Laboratory experiments are used to provide experiences and examples of theoretical concepts covered in the course. (UC, CSU, CAN ENGR 6)

ENGR 8 Statics Units 3

Prerequisites: MATH 2 with a grade of "C" or better; PHYSIC 4A or concurrent enrollment in PHYSIC 4A.

Limitation on Enrollment: None.

Advisories: None.

This course is a study of rigid bodies in static equilibrium when acted upon by forces and couples in two-dimensional and three-dimensional space. Included are equilibrium of rigid bodies, trusses, frames, and machines, as well as the calculation of centers of mass, centroids, friction, distributed forces, beams, shear and moment diagrams, and moments of inertia. (UC, CSU, CAN ENGR 8)

ENGR 10 Surveying Units 3

Prerequisites: MATH 31; or MATH 36; or MATH 87; with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to surveying fundamentals including the use and care of surveying instruments such as: steel tape, engineer's level, transits, theodolites, and total stations. Applications include horizontal and vertical measurements, layout, and both traverse and area computations. Surveying mapping is introduced. (UC, CSU, CAN ENGR 10)

ENGR 15 Selected Topics: Engineering 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 engineering not already covered by existing curricula. (UC, CSU)

ENGR 15F Introduction to 3D Studio VIM Units 1

Prerequisites: Reading level II or reading level I with corequisite.

Corequisite: Concurrent enrollment in reading.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the student to 3D Studio VIX. Walk-thrus, rendering, animation, lighting, and other presentation topics are addressed. (CSU)

ENGR 27 Engineering FORTRAN Units 3

Prerequisites: Reading level II; MATH 31 or 36 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the programming language FORTRAN. The course includes input-output processing, arithmetic calculations, and the use of logical expressions. Computer programs are assigned to assist students in developing competence in the language. The course is designed primarily for mathematics or engineering students. (UC, CSU, CAN CSCI 4)

ENGR 29 Engineering Applications for Digital Computations Units 3

Prerequisites: MATH 36 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the student to the use of computers to solve a variety of engineering problems. Structured FORTRAN, Language "C", and software applications are utilized. This course includes algorithm development, control structures, array processing, functions and subroutines, roots of equations, and numerical integration of functions. (CSU)

ENGR 50H Special Studies: Engineering Units 1-2

Prerequisites: Completion of two semesters of engineering classes 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 offered to any student qualified to do advanced work in engineering. Projects and assignments must be arranged and be approved by the instructor and the division chairperson before enrolling in the course. The course may be repeated for a maximum of four units. (UC, CSU)

ENGR 69V Internship: Engineering Technology Units 1-8

Prerequisites: None.

Limitations on Enrollment: The student must enroll in a course that is directly related to the engineering technologies 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 engineering technologies. 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)

ENGR 72B Beginning Human Powered Vehicle Design and Construction Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide the study of the design, analysis, construction, testing, and documentation of a human-powered vehicle.

ENGR 75 Selected Topics: Engineering 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 engineering not already covered by curricula.

ENGINEERING TECHNOLOGY

E TECH 11 Engineering Drafting Units 3

Prerequisites: E TECH 13 with a grade of "C" or better or concurrent enrollment in E TECH 13.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to expand the student's understanding of engineering drafting concepts. Topics include dimensioning, tolerancing, surface texture, notes, threads and fasteners, weld representation, gearing, cams, and assembly drawings. (CSU)

E TECH 12 Computer-Aided Drafting Units 3

Prerequisites: E TECH 13 or ARCH 1; with a grade of "C" or better or concurrent enrollment in E TECH 13 or ARCH 1.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to utilize Computer-Aided Drafting (CAD) software on microcomputer CAD systems to produce a variety of drawings. The course includes the function and operation of typical CAD system components. Some of the course work allows student to work in fields of individualized interest. (CSU)

E TECH 13 Engineering Drafting Skills Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce basic skills used in engineering drafting. Topics include sketching, proper use of equipment, orthographic projection, isometric views, geometric construction, and sectioning. Line quality, lettering, and accuracy are emphasized. An introduction to dimensioning, graphing, and the engineering design process is provided. (CSU)

E TECH 20 Materials and Measurements Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: MATH 80.

This course is designed for the technology student. The course is designed to provide the technology student with a basic understanding of the structure and physical properties of materials such as metals, ceramics, polymers, composites, and electronic-related materials. Test procedures and instrumentation used in studying materials are included. The course includes a variety of measuring techniques. (CSU)

E TECH 22 Three Dimensional Modeling Units 3

Prerequisites: E TECH 12 or ARCH 12 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the construction of three dimensional models. The course includes wireframe, surface, and solid modeling. (CSU)

E TECH 23 AutoCAD Customization Units 2

Prerequisites: E TECH 12 or ARCH 12 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce advanced applications and customization of AutoCAD software. Topics include blocks and attributes, script files, shape files, menu modification, and an introduction to the Auto LISP programming language. (CSU)

E TECH 24 AutoLISP Programming Units 2

Prerequisites: E TECH 12 or ARCH 12 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the student to programming using AutoLISP, AutoCAD's applications customization language. Topics include programs using simple sequence, branching, and looping structures. AutoLISP is also used to access and change the drawing database. (CSU)

E TECH 25 Computer Aided Drafting Projects Units 1

Prerequisites: E TECH 12 or ARCH 12 both with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to apply AutoCAD areas of specialization. The student selects individual projects applicable to an engineering technology discipline. The instructor provides individualized instruction as necessary. (CSU)

E TECH 26 Technical Statics Units 3

Prerequisites: MATH 31; or MATH 36; or MATH 87; with a grade of a "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the theories and fundamentals of forces, their action, and distribution on and within objects at rest. (CSU)

E TECH 31 Fundamentals of Civil Drafting Units 4

Prerequisites: E TECH 12 or ARCH 58A; MATH 80; all with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to conventional drafting practices used in typical civil engineering projects. Emphasis is placed on the drafting and understanding of subdivision mapping, structural plans, and structural details including steel, wood, masonry, and reinforced concrete structures. A complete project portfolio is developed. (CSU)

E TECH 34 Machine Drafting Units 3

Prerequisites: E TECH 11 or E TECH 23 both with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to prepare detail and assembly drawings of machine parts using precision-dimensioning techniques. Topics include geometric tolerancing per American Society of Mechanical Engineers (ASME) Y14.5 standard, fits, paper gauging, detailed specifications, notes, material lists, and surface finishes. (CSU)

E TECH 35 Machine Design Units 3

Prerequisites: E TECH 11, E TECH 23, E TECH 26 or E TECH 76 all with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to apply the engineering design process and common applications of basic machine design principles. Topics include the engineering design process, materials used in engineering fabrications, stress analysis, linear deformation, tolerancing considerations, fasteners, permanent joints, shafts and couplings, bearings, belts and chains, gears, and clutches and brakes. (CSU)

E TECH 41 Civil Drafting: Site Design and Improvement Units 4

Prerequisites: E TECH 23 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: MATH 80 with a grade of "C" or better.

This course is an introduction to the development and design of site plans, including parking, storm drainage systems, sewage piping, and site preparation. The student prepares a set of drawings with calculations and cost estimates for a site improvement plan. A complete project portfolio is developed. (CSU)

E TECH 45 Practical Machine Design Units 3

Prerequisites: E TECH 12, MECH 15; all with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to basic machine problems. Course projects encompass engineering design fabrication, computer-aided drafting, manufacturing processes, and dimension verification and inspection. Topics covered include machine design, manufacturing system and fabrication processes, machine drafting and tolerancing, and geometric dimensioning and tolerancing. (CSU)

E TECH 46 Mechanical and Electrical Systems Units 3

Prerequisites: E TECH 12 or ARCH 58A.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the fundamentals of mechanical and electrical building systems used in the construction industry. These fundamentals are applied in the design and drawing of engineering plans for mechanical and electrical systems required for building construction. (CSU)

E TECH 47 Introduction to Industrial Control Systems Units 2

Prerequisites: None.
Limitation on Enrollment: None.
Advisories: None.
 This course is designed to include basic control systems for process machines and driven equipment used in industry. Topics include programmable controllers, basic electrical circuits, input devices, output devices, control diagrams, and specific programmable controller applications. (CSU)

E TECH 70A Introduction to Human Powered Vehicle Design and Construction Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is the study of the design, analysis, construction, testing, and documentation of the human powered vehicle.

E TECH 70B Beginning Human Powered Vehicle Design and Construction Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is the study of the design, analysis, construction, testing, and documentation of the human powered vehicle.

E TECH 70C Intermediate Human Powered Vehicle Design and Construction Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is the study of the design, analysis, construction, testing, and documentation of the human powered vehicle.

E TECH 70D Advanced Human Powered Vehicle Design and Construction Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
 This course is the study of the design, analysis, construction, testing, and documentation of the human powered vehicle.

E TECH 73 Trade Technician Drafting Skills Units 3

Prerequisites: None.
Limitation on Enrollment: None.
Advisories: None.
 This course is an introduction to sketching and drafting skills required of technicians in mechanically-oriented trades. Topics include orthographic projections, dimensioning, isometric views, sectioning, auxiliary views, assembly drawings, introduction to tolerances, surface finishes, and threads.

E TECH 76 Applied Statics Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: MATH 80 with a grade of "C" or better.
 This course is an application-oriented approach to solving equilibrium problems dealing with the effects of forces acting on and within objects at rest.

E TECH 80 Applied Surveying Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: MATH 80 with a grade of "C" or better.
 This course is designed for engineering technicians. This course uses an applications-oriented approach in covering the basic principles used in typical surveying field and office work related to horizontal measurements, elevations, traverses, boundary surveys, route surveying, and construction projects.

ENGLISH

ENG 1A Written Communications Units 3

Prerequisites: Demonstrate competency in language skills through qualifying scores of a composition level III, or a "C" grade or better in ENG 79.
Limitation on Enrollment: None.
Advisories: None.
 This course is a transfer-level, college freshman English composition course comparable to those courses offered by the state college and university systems. (UC, CSU, CAN ENGL 2, CAN ENGL SEQ A with both ENG 1A and ENG 1B)

ENG 1B Written Communications Units 3

Prerequisites: ENG 1A with a grade of "C" or better.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to require the writing of a substantial number of problem-solving essays. The course focuses on the development of critical thinking skills and the practice and application of these skills through close analysis of culturally diverse literature. The analysis is based on practice in reading, discussing, and writing. (UC, CSU, CAN ENGL 4, CAN ENGL SEQ A with both ENG 1A and 1B)

ENG 1C Written Communications Units 3

Prerequisites: ENG 1A and 1B with a grade of "C" or better.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed to allow students to continue practicing the art of advanced expository and critical writing based on college-level readings. This course is required for students transferring to UC Berkeley. (UC, CSU)

ENG 1D Critical Composition Units 3

Prerequisites: ENG 1A with a grade of "C" or better.
Limitations on Enrollment: None.
Advisories: None.
 This course is designed for students who wish to transfer to a four-year college or university. The course emphasizes the development of critical thinking skills through instruction in essay writing by focusing on the principles of logic and developing the abilities to analyze, to criticize, and to reach reasoned conclusions. Critical thinking is refined by close reading of prose to distinguish fact from value judgment and knowledge from mere opinion. Students are required to write between 6000 and 8000 words divided among several essay assignments. (UC, CSU)

ENG 1E Thematic Expository Composition Units 3

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

Limitations on Enrollment: None.

Advisories: None.

This course is designed to give students continued practice in advanced expository and critical writing. The course emphasizes the development and integration of analytical and critical reading, writing, and research skills. Writing assignments are based on college-level readings as well as personal, field, and library research. Readings are organized around a single theme and represent a variety of genres and cultures. This course is for students transferring to CSU, Sacramento. (UC, CSU)

ENG 15 Selected Topics: English Units 0.5-2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course consists of specialized topics related to the teaching of critical reading and writing skills. Specific topics appear in the semester schedule of courses. (UC, CSU)

ENG 26 Composition Laboratory Units 2

Prerequisites: Level III composition.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide special writing topics for students who would benefit from additional writing experience in adjunct with ENG 1A. Problems in critical thinking, style, mood, and tone are addressed as well as mechanical skills. (CSU)

ENG 27 Rapid Reading Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students who wish to assure themselves of a reading ability that will meet the demands of college and the professions. (CSU)

ENG 30 The Film as Literature Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a study of the cinema genre with emphasis on artistic and literary values. (UC, CSU)

**ENG 32A Seminar in Communications: Units 0.5-2
Tutor Center**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student who is qualified to work as a content area tutor. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques and methods, interpersonal relationships, and content analysis. (CSU)

**ENG 32B Seminar in Communications: Units 0.5-2
Writing Lab**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student who is qualified to work as content area tutor. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques and methods, interpersonal relationships, and content analysis. (CSU)

**ENG 32C Seminar in Communications: Units 0.5-2
Reading-Beginning Tutor Techniques**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student, at beginning level, who is qualified to work as a content area tutor. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques and methods, interpersonal relationships, and content analysis. (CSU)

**ENG 32D Seminar in Communications: Units 0.5-2
Reading-Intermediate Tutor Techniques**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student, at an intermediate level, who is qualified to work as a content area tutor. Emphasis in training is placed on study skills, learning styles, problem-solving, tutoring techniques and methods, interpersonal relationships, and content analysis. (CSU)

**ENG 32E Seminar in Communications: Units 0.5-2
Reading-Advanced Tutor Techniques**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student, at an advanced level, who is qualified to work as a content area tutor. Emphasis is placed on study skills, learning styles, problem-solving, tutoring techniques and methods, interpersonal relationships, methods and content analysis. (CSU)

**ENG 32F Seminar in Communications: Units 0.5-2
Reading-Experience Tutor Techniques**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student, at an experienced level, who is qualified to work as a content area tutor. Emphasis in training is placed on study skills, learning styles, problem-solving, tutoring techniques and methods, interpersonal relationships, and content analysis. (CSU)

**ENG 32G Seminar in Communications: Units 0.5-2
Mathematics**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student who is qualified to work as a content area tutor. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques and methods, interpersonal relationships, and content analysis. (UC, CSU)

**ENG 32H Seminar in Communications: Units 0.5-2
English as A Second Language (ESL)**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student who is qualified to work as a content area tutor. Emphasis in training is placed on study skills, learning styles, problem-solving, tutoring techniques and methods, interpersonal relationships, and content analysis. (CSU)

**ENG 32I Seminar in Communications: Units 0.5-2
Learning Disabilities**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student who is qualified to work as a content area tutor. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques and methods, interpersonal relationships, and content analysis.

**ENG 32J Seminar in Communications: Units 0.5-2
Community Tutor Training**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for the student who is qualified to work as a content area tutor. Emphasis in training is placed on study skills, learning styles, problem-solving, tutoring techniques and methods, interpersonal relationships, and content analysis. (CSU)

**ENG 33A Advanced Learning Skills: Units 2
Vocabulary Improvement**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an advanced learning skills course designed to improve students' college-level vocabulary by word study, use of context clues, learning Greek and Latin roots, and affixes and structural analysis. (CSU)

**ENG 33B Advanced Learning Skills: Units 2
Spelling Improvement**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an advanced, accelerated course designed to help students improve spelling skills through the study of phonetic, historic, and linguistic patterns of the English language. (CSU)

**ENG 33C Advanced Learning Skills: Units 2
Reading for Success in College**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enable students to improve their reading comprehension skills and prepare to meet the demands of college reading and studying. A variety of reading strategies are taught in order to enhance the students' ability to critically analyze college-level reading material. (CSU)

ENG 33E Study Skills for Success in College Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an advanced learning skills course designed to improve students' study skills. Topics include taking lecture notes, reading a textbook, and passing examinations. (CSU)

**ENG 33G Human Learning and Units 2
Thinking Skills**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a combination of theory and training. The basic theories which contribute to a model of the learning process are presented simultaneously with the training. The training portion of the course is designed to teach students how to learn more effectively. The training includes development of logical thinking, visual thinking, and mapping. (CSU)

ENG 33H Memory and Cognitive Training Units 2

Prerequisites: ENG 33G

Limitations on Enrollment: None.

Advisories: None.

This course is designed to expand the students' ability to use the cognitive functions of both sides of the brain to actively orchestrate their own learning process. (CSU)

**ENG 34 The Rock Lyric as Literature: Units 3
Practical Literary Criticism**

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an examination on three decades of American rock and roll lyrics and the social history which gave rise to them. Special emphasis is placed on the exploration of socio-historical context and the application of literary methodology. A historical survey of the American subcultures represented by thematic categories is analyzed. (CSU)

ENG 35A Chicano Literature Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a critical survey of Chicano literature from pre-Columbian, Mexican periods, to present U. S., Chicano, and Mexican-American period. No Spanish proficiency is required. (UC, CSU)

ENG 36 Selected Topics: Literature Units 1-3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to permit the study of a topic in the field of literature which is not covered in other literature courses. (UC, CSU)

ENG 37 Women in Literature Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a study of women in literature with an emphasis on female archetypes in short fiction, drama, and poetry. (UC, CSU)

ENG 38 Mythology**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is a reading and discussion of Greek, Roman, and Norse mythology that provides a background for the students' understanding of allusions, form, and content of recurring themes in modern literature as well as helping them to recognize the continued influence of mythological motifs on our fundamental customs, traditional beliefs, and values. (UC, CSU)

ENG 39 Introduction to Folklore**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to introduce the student to examine the forms and functions of folklore which is that body of knowledge, those beliefs, and ways of behaving that have been handed down through tradition. These include games and rhymes, myths, legends, and folk songs. Students are required to create their own collection of folklore items as a semester project. (UC, CSU)

ENG 40A Current Literature**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to acquaint students with themes of the contemporary novel. ENG 40A or ENG 40B may be taken separately. (UC, CSU)

ENG 40B Current Literature**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to acquaint students with the contemporary short story and drama. ENG 40A or ENG 40B may be taken separately. (UC, CSU)

ENG 42A Survey of American Literature**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is a study of the forms and ideas in American literature with an emphasis on an understanding of the values and traditions which shape contemporary thought. ENG 42A or ENG 42B may be taken separately. (UC, CSU, CAN Eng14, CAN ENGL SEQ C with both ENG 42A and ENG 42B)

ENG 42B Survey of American Literature**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is a study of the forms and ideas in American literature with an emphasis on an understanding of the values and traditions which shape contemporary thought (Mark Twain through contemporary authors). ENG 42A or ENG 42B may be taken separately. (UC, CSU, CAN ENGL 16, CAN ENGL SEQ C with both ENG 42A and ENG 42B)

ENG 44A Creative Writing: Short Story**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is offered to students who are seriously interested in writing the short story. Emphasis is placed on the study of the craft of fiction and artistry employed by successful, established, published authors, and on constructive group criticism of manuscripts submitted by members of the course. Emphasis is on characterization, plot, and setting. (CSU, CAN ENGL 6)

ENG 44B Creative Writing: Style**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is a continuation of assistance to students who wish to develop refined creative writing skills. Emphasis is on the students' development of an individual style through control of voice, mood, tone, and point of view. (CSU)

ENG 44C Creative Writing: Poetry**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is offered to students who are seriously interested in writing poetry. Emphasis is placed on the study of the craft of poetry and artistry employed by successful, established, published authors, and on constructive group criticism of poems submitted by members of the class. (CSU)

ENG 44D Creative Writing: Play and Screen Writing**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: ENG 1A.*

This course is offered to students seriously interested in writing stage plays or screenplays. Emphasis is placed on the study of the craft of writing for the stage or screen; the artistry employed by successful, established, published authors; and constructive group criticism of manuscripts submitted by members of the class. Emphasis is on plot, character, dialogue, and format. (CSU)

ENG 45 The Reading of Shakespeare**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is a study of the reading and interpretation of selected works of Shakespeare. (UC, CSU)

ENG 46A Survey of English Literature**Units 3***Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is a survey of English literature beginning with the Anglo-Saxon period and extending to the Age of Satire. (UC, CSU, CAN ENGL 8, CAN ENGL SEQ B with both ENG 46A and ENG 46B)

ENG 46B Survey of English Literature Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is an introduction to English writers and movements. Students are exposed to the study of Romanticism, Victorianism, and modern literature. (UC, CSU, CAN Eng10, CAN ENGL SEQ B with both ENG 46A and ENG 46B)

ENG 50H Special Studies: English Units 1-2

Prerequisites: Reading level II or concurrent enrollment in reading; 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 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 4 units. (UC, CSU)

ENG 52 From Story to Screen Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to assist students to explore and identify the changes that occur when a story becomes a movie. Students read stories, primarily novels, read corresponding movie scripts, and watch movies analyzing the differences among the three. Students also adapt portions of stories into movie scripts. (UC, CSU)

ENG 53 Freelance Writing Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to assist 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)

ENG 55 Reading Plays: Critical Approaches Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to assist students in examining drama as a literary genre. Students read plays, identify components intrinsic to them, and analyze according to various critical approaches. (UC, CSU)

ENG 56 Writers: Their Lives and Their Works Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to assist students in examining writers' works in light of their lives. Students read works of literature by a variety of authors and analyze them according to their biographical elements. Literature includes novels, short stories, plays, poetry, and essays. (CSU)

ENG 57 Children's Literature Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is a study of both traditional and modern children's books from around the world. Students read, analyze, and evaluate great works of children's literature. (CSU)

ENG 70A Basic Writing Skills: Beginning Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is for students needing skill development in writing sentences and paragraphs. Emphasis is placed on writing clearly and correctly for a given purpose. Units earned in this course do not count toward the associate degree.

ENG 70B Basic Writing Skills: Intermediate Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is for students needing skill development in writing sentences and paragraphs. Emphasis is placed on writing clearly and correctly for a given purpose. Units earned in this course do not count toward the associate degree.

ENG 70C Basic Writing Skills: Advanced Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is for students needing skill development in writing sentences and paragraphs. Emphasis is placed on writing clearly and correctly for a given purpose. Units earned in this course do not count toward the associate degree.

ENG 71 Practical Grammar Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is a lecture and demonstration course dealing with grammar and mechanics of the English language. The course is designed for students who plan to enroll or who are enrolled in ENG 1A or for any students who desire to improve their knowledge of the structure and usage of English.

ENG 72 Technical Writing Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is for technical and industrial students and stresses those skills as required for communicating technical information in a clear, precise manner.

ENG 73A Writing Laboratory Units 0.5-2

Prerequisites: None.
Limitation on Enrollment: None.
Advisories: None.

This course is designed for individualized writing practice in the paragraph and sentence for student in ENG 70C (Basic Writing Skills) or for the student challenged in basic written English or with limited English proficiency. The student's current skill level is determined, and instruction starts at that point. Units earned in this course do not count toward the associate degree.

ENG 73B Writing Laboratory, Advanced Units 0.5-2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for individualized writing practice in the academic essay commonly used in colleges today and for the review of the paragraph and sentence for the student challenged in basic written English. The student's current skill level is determined, and instruction starts at that point.

ENG 74A Contemporary Communications: Units 2.5 Intermediate

Prerequisites: Composition level II or completion of ENG 70C with a grade of "B" or better or completion of ENG 87 with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is equivalent to the first half of Preparatory English, designed to allow the student more study time for the course work. Successful completion of both ENG 74A, Contemporary Communications: Intermediate, and ENG 74B, Contemporary Communications: Advanced, is equivalent to completion of ENG 79, Preparatory English.

ENG 74B Contemporary Communications: Units 2.5 Advanced

Prerequisites: Successful completion of ENG 74A with a grade of "C" or better.

Limitations on Enrollment: None.

Advisories: None.

This course is equivalent to the second half of Preparatory English designed to allow the student more study time for the course work. Successful completion of both ENG 74A, Contemporary Communications: Intermediate, and ENG 74B, Contemporary Communications: Advanced, is equivalent to completion of ENG 79, Preparatory English.

ENG 77A Basic Reading Comprehension: Units 2 English as A Second Language (VESL)

Prerequisites: Eligibility for ENG 84.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to increase students reading and comprehension skills, including identification to topic, main ideas, and supporting details. Three different populations served are Vocational English as a Second Language (VESL), technical areas, and general education. Each group is served in a specific section. Units earned in this course do not count toward the associate degree.

ENG 79 Preparatory English Units 5

Prerequisites: Composition Level II or completion of ENG 70C with a grade of "B" or better, or completion of ENG 87 with a grade of "C" or better.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to prepare students to enter college level English composition. The emphasis in the course is on writing well-developed paragraphs in an organized essay and reviewing grammar and usage. This course satisfies the English requirement for the Associate Degree.

ENG 79L Preparatory English Units 6

Prerequisites: Composition Level II or completion of ENG 70C with a grade of "B" or better, or completion of English 87 with a grade of "C" or better.

Limitation on Enrollment: None.

Advisories: None.

This course is designed to combine preparatory English and a laboratory component to reinforce writing skills by giving students practice in mastering the essay. Students receive individual tutoring to reinforce principles of grammar and composition which have been introduced through lecture.

ENG 80 English Language Development Units 4.5-7

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a basic survival English course emphasizing oral production of language. Students are required to take a core curriculum assigned according to their respective level. Units earned in this course do not count toward the associate degree.

ENG 81 Basic English as A Second Language Units 7

Prerequisites: Level I placement based on the CELSA, a writing sample, and an oral interview.

Limitations on Enrollment: None.

Advisories: None.

This course is a continuation of the survival English course that introduces students to the basic structures of written language. Units earned in this course do not count toward the associate degree.

ENG 82 Introduction to English Units 7 Language Development

Prerequisites: Placement is based on the CELSA, a writing sample, and oral interview.

Limitations on Enrollment: None.

Advisories: English as A Second Language (ESL) is to be taken concurrently.

This course is designed for students to work on pronunciation, vocabulary, sentence patterns, conversation practices, reading, and writing. Students are required to take the appropriate core curriculum assigned according to their respective skill level. Units earned in this course do not count toward the associate degree.

ENG 83 Beginning English Language Units 7 Development

Prerequisites: Credit in ENG 82 or placement based on the CELSA, a writing sample, and an oral interview.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students of all foreign backgrounds and abilities in English to work on such problems as pronunciation, vocabulary, sentence patterns, conversation practices, reading, and writing. ENG 86D, English-as-a-Second-Language (ESL) Laboratory must be taken concurrently with ENG 83. Students are required to take the appropriate core curriculum assigned according to their respective skill level. Units earned in this course do not count toward the associate degree.

ENG 84 Intermediate English Language Development Units 6

Prerequisites: Credit in ENG 83 or placement based on the CELSA, a writing sample, and an oral interview.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for students to work on pronunciation, vocabulary, sentence patterns, conversation practices, reading, and writing. ENG 86E, English-as-a-Second-Language (ESL) Laboratory must be taken concurrently with ENG 84. Students are required to take the appropriate core curriculum assigned according to their respective skill level. Units earned in this course do not count toward the associate degree.

ENG 85 Advanced English Language Development Units 6

Prerequisites: Credit in ENG 84 or placement based on the CELSA, a writing sample, and an oral interview.

Limitations on Enrollment: None.

Advisories: None.

This course is a two-part course in advanced ESL: a review of functional English grammar and basic sentence patterns, including frequent practice in both written and spoken expression; and instruction in reading comprehension skills, including frequent practice in systematic reading and analysis. ENG 86F, English-as-a-Second-Language (ESL) Laboratory must be taken concurrently with ENG 85. Students are required to take the appropriate core curriculum assigned according to their respective skill level. Units earned in this course do not count toward the associate degree.

ENG 86A English as A Second Language Laboratory Units 1-3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an individualized ESL laboratory. Audio-Visual materials, tutoring, and small-group instruction are available to aid students in developing language proficiency. Laboratory sections ENG 86A-F require concurrent enrollment in ENG 80, 81, 82, 83, 84, or 85. ENG 86G-P are independent, individualized laboratory programs. Units earned in this course do not count toward the associate degree.

ENG 87 Intermediate Writing Units 5

Prerequisites: Successful completion of ENG 70C at Level I.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to prepare students for ENG 79. Emphasis is placed on writing and editing of paragraphs and brief essays based on readings. Units earned in this course do not count toward the associate degree.

FAMILY & CONSUMER SCIENCES

FCS 2 Life Management Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide individuals with skills for understanding and using internal and external resources to function effectively in the present and future society. Major topics include effects of cultural forces and future trends on values, standards and goals, skills for decision-making, time, energy, stress, conflict management, and techniques for improving self-understanding and interpersonal relationships. (CSU)

FCS 3 Home Management and Finance Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce basic home management principles that apply to personal and family finance. Study is given to services available to today's families and to the awareness of consumer problems related to family management. (CSU)

FCS 5 Basic Nutrition Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to basic nutrition. Properties of nutrients and foods are explored. Economic, sociological, and psychological factors that are influential in food choices are discussed. Emphasis is placed on the importance of good nutrition throughout the human life cycle. (UC, CSU)

FCS 6 Nutrition Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is a study of nutrition as a science and its application to human health and disease. The course provides an introduction to the roles of carbohydrates, fats, proteins, minerals, vitamins, and water in human nutrition. The course also includes an individual dietary study and evaluation based on the National Research Council's recommended dietary allowances. (UC, CSU, CAN FCS 2)

FCS 7 Healthful Eating Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a focus on the elements needed to construct healthful eating habits in modern society. Students learn to evaluate the health value of food products, nutrient supplements, and herbs. Emphasis is placed on the skills needed for making successful changes in dietary habits and fitness. (CSU)

FCS 8 Food Preparation Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to basic food principles with emphasis on preparation methods, product standards, functions of ingredients, and food purchasing. (CSU, CAN FCS 8)

FCS 10 Interior Design Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a study of functional and aesthetic elements for residential interiors. Emphasis is placed on: principles and elements of design and the selection and organization of furnishings, floor and wall coverings, window treatments, lighting, and accessories. (CSU)

FCS 11 Applied Interior Design Units 3

Prerequisites: FCS 10.

Limitations on Enrollment: None.

Advisories: None.

This course is a focus on the skills used by the interior designer including drafting, the use of architectural tools and techniques, space planning, client-designer relationships, and executing treatments for interiors. (CSU)

FCS 12 History of Furniture Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the history of furniture periods and styles from antiquity to the present, and it is designed to acquaint individuals with the necessary criteria to evaluate and analyze furniture. The importance of political, social, economic, and historical factors that influenced furniture styles are stressed. (CSU)

FCS 13 Specifications and Professional Practices Units 3

Prerequisites: FCS 10.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the business, practical, and ethical aspects of the interior design profession. The course includes assessment on specifications, construction techniques, and installation processes, as well as the working relationship with craftspeople and tradespeople involved in the profession. (CSU)

FCS 14 Lighting Design Units 3

Prerequisites: FCS 10.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to lighting specifications, available equipment and fixtures, and aesthetic considerations from concept to complete installation. The course includes in-depth mathematical calculations used to determine the amount of lighting necessary to meet specific codes and clients needs. (CSU)

FCS 15 Selected Topics: Family and Consumer Sciences 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 family and consumer sciences not already covered by existing curricula. (CSU)

FCS 19 Human Development Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an integration of the biological, cognitive, and psychological 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. The course is designed as a foundation course for careers in educational, social service, psychological, and health fields. (UC, CSU)

FCS 21 Child Development Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is an analysis of the dynamics of growth from infancy to adolescence. Cognitive, physical, and social-emotional development are discussed. Special emphasis is placed on psychoanalytic, behaviorist, and cognitive theories. (UC, CSU, CAN FCS 14)

FCS 22 Adolescent Development Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an analysis of the physical, cognitive, and social-emotional growth from puberty to adulthood. The course covers the major social roles the adolescent is called upon to play in family, peer group, school, and the larger socio-cultural environment. Special attention is given to the psycho-sexual roles of men and women, the young person's choices of a career and lifestyle, the difficulties in communication between generations, and the transition from childhood to the full role of adult. (UC, CSU)

FCS 23 Marriage and the Family Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an interdisciplinary approach to marriage and family interpersonal relationships, changing family roles, sexuality, cultural diversity of families, the family life cycle, parenthood, and contemporary family issues. Special emphasis is placed on making choices, communication in relationships, understanding flexibility in family structures, and resolving interpersonal problems. (CSU, CAN FCS 12)

FCS 24 Adult Development and Aging (Gerontology) Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an interdisciplinary introduction to the biological, psychological, sociological, and economic characteristics of the adult and aging population. The course investigates life satisfactions and problems of the mature and aged, related resources and services, and contemporary issues. (CSU)

FCS 25 Studying and Observing Children Units 2

Prerequisites: Reading level II; FCS 21 or concurrent enrollment.

Limitations on Enrollment: None.

Advisories: None.

This course is of interest to students considering careers working with children. The course is designed to increase students understanding of methods used to observe and record children's growth and development. Time is spent observing, recording, and analyzing the behavior of children as they interact with teachers and peers. Skills needed for working with children are reviewed. (CSU)

FCS 26 Child, Family, and Community Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to examine the effects that family and community have on a child's development. Interaction between the child, family, peers, school, and community is explored. (CSU)

FCS 27 Human Development Community Service Practicum Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide students with knowledge of services available to children and families through the various child and family service agencies. As a result of class discussions and volunteering in agencies, students gain practical work experience, in-depth knowledge of the services provided by the agencies, and information regarding career opportunities. (CSU)

FCS 28 Health and Safety in Child Care Units 2

Prerequisites: Reading level II or concurrent enrollment in reading.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for teachers and child care providers who work in child development centers or family day care homes. Health and safety issues in child care are identified. Licensing regulations pertaining to prevention of infectious disease, recognizing signs of child illness, preparation for emergencies, and the caregiver's responsibility for children's health are discussed. (CSU)

FCS 29 Early Childhood Experiences: Arts and Sciences Units 3

Prerequisites: Reading level II; FCS 21.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the early childhood education curriculum in creative arts, science, mathematics, health, nutrition, music, creative movement, dramatic play, manipulative materials, and outdoor activities. The course includes the planning, preparation, presentation, and evaluation of learning for young children. (CSU)

FCS 30 Early Childhood Experiences: Language Arts Units 3

Prerequisites: Reading level II; FCS 21.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to the language arts curriculum in early childhood education and the planning, preparation, presentation, and evaluation of language experiences for young children. Focus is on the development of a positive attitude toward books, reading, verbal expression, and listening skills. (CSU)

FCS 31A ECE Theory: Working with Children Units 3

Prerequisites: FCS 21.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to prepare the student to teach in various types of Early Childhood Education (E.C.E.) programs. The course emphasizes methodologies to stimulate healthy growth and a positive self-image in children 2 1/2 to 5 years. The history of and current trends in E.C.E. are discussed. (CSU)

FCS 31B ECE Theory: Early Cognitive Learning Units 3

Prerequisites: Reading level II; FCS 31A.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to prepare students to teach in various types of early childhood education programs. The course provides a study of how young children learn. The theories of Piaget, Montessori, and Skinner are emphasized as a basis for curriculum planning. (CSU)

FCS 32A Early ECE Practicum Units 3

Prerequisites: Reading level II; FCS 31A or concurrent enrollment; all students must obtain medical verification of absence of TB (this is required by State law). Limitation on Enrollments: None.

Advisories: None.

This course is designed to help students prepare to teach in various types of early childhood education programs. Observing, planning, and implementing learning experiences are exercised as a student teacher in the College's preschool. (CSU)

FCS 32B ECE Practicum Units 3

Prerequisites: Reading level II; FCS 32A.

Limitations on Enrollment: Students must obtain medical verification of absence of T.B., complete a criminal record clearance, a health evaluation, and be fingerprinted as required by State law.

Advisories: None.

This course is designed to help students prepare to teach in various types of early childhood education programs. Observing, planning, implementing, and evaluating learning experiences are exercised as a student teacher in the College's preschool. Writing learning objectives and assessing children's behavior are stressed. (CSU)

FCS 33 Infant Development and Caregiving Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide an examination of the components of quality infant caregiving. Individual differences, developmental stages, health and safety, state licensing requirements, and planning the environment are discussed. The impact of cultural differences and parental attitudes is explored. (CSU)

FCS 34 Children With Special Needs Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to increase skills in identifying, screening, and referring children with special needs. Strategies for meeting individual needs in an early childhood setting are examined. (CSU)

FCS 35 Nutrition and Food for Children Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to emphasize methods of preparing food for children and with children and to encourage good eating habits. Basic nutrition for the childhood years and the use of food as a teaching tool in various curriculum areas are discussed. (CSU)

FCS 36 Activities and Environments for School Age Child Care Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to focus on the planning, implementation, and evaluation of creative and educational activities suitable for school-age children in child-care programs. Emphasis is placed on providing experiences which stimulate growth, discovery, and learning. (CSU)

FCS 37 Administration of Child Care Programs Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for current or potential directors and owners of public and private nursery schools and child care programs. Topics such as staff selection and supervision, licensing requirements, and employment law and budget are covered. (CSU)

FCS 38 Development and Financial Management of Child Care Programs Units 3

Prerequisites: Reading level II or concurrent enrollment in reading.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to cover fiscal matters crucial to the start-up and success of preschool and child care programs. Principles of financial management, personnel management and licensing requirements are covered. This course is of interest to child care administrators and individuals interested in the development and management of child care programs. (CSU)

FCS 39 Infant Toddler Practicum Units 3

Prerequisites: FCS 33.

Limitations on Enrollment: Medical verification of absence of tuberculosis within last 12 months and fingerprint clearance required by State of California Title 22 Regulations.

Advisories: None.

This course is designed to prepare the student to teach in an infant or toddler center. The student plans, implements, and evaluates developmentally appropriate activities for infants and toddlers. The course includes practice in setting up an appropriate environment, techniques of observing and recording behavior, and positive guidance techniques. (CSU)

FCS 40 Introduction to Fashion Merchandising Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to marketing of fashion goods from raw materials to production and retail distribution. Methods of predicting consumer demand, buying, pricing, promoting, and coordinating accessories are analyzed. (CSU)

FCS 41 Fashion Product Knowledge Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to increase the students knowledge of fashion as it relates to value, durability, versatility, and the price of goods in the market place. An in-depth analysis of apparel and accessories for women, men, and children is covered. (CSU)

FCS 42 Textiles Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to textiles which includes the study of fibers, yarn, fabric construction, coloring, and finishes. Emphasis is placed on fabric performance, serviceability, and the consumer's role in the textile field. (UC, CSU, CAN H EC 6)

FCS 43 Origins of Fashion Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a survey of the history of clothing as reflected in political, economic, and social trends. Students trace the evolution of garments and the specific periods in which they were popular. (CSU)

FCS 44 Clothing in Contemporary Society Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a study of clothing and its relationship to culture, society, and the individual. The psychological and sociological influences of dress, the physical aspects of appearance, the elements and principles of design as they relate to clothing selection, and wardrobe coordination are discussed. (CSU, CAN H EC 20)

FCS 45 Fashion Sales and Promotion Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to acquaint students with different activities in fashion promotion. Promotional techniques covered include personal selling, fashion show, special events, advertising, and publicity. (CSU)

FCS 46 Visual Merchandising Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to acquaint students with the basic techniques of effective visual merchandising, including history, terminology, types, components, and the structure of visual merchandising departments. Course activities include designing and constructing visual displays. (CSU)

FCS 47A Clothing Construction Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to acquaint students with the selection and use of sewing equipment, fabric and patterns, interpretation and use of commercial patterns, pattern alterations, and construction techniques. Careers in the sewing industry are discussed. (CSU)

FCS 47B Clothing Construction Units 3

Prerequisites: FCS 47A.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to acquaint students with the application and evaluation of advanced clothing construction techniques, pattern alterations, and fitting. New and unique fashion fabrics and shaping materials are used. Emphasis is on pattern alterations and garment fitting. (CSU)

FCS 48A Flat Pattern Design Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is a study of the technique of flat pattern-making and basic slopers for the bodice, sleeve, and skirt. Use of slopers as a foundation for designing patterns for shirts, blouses, and skirts are analyzed. (CSU)

FCS 48B Fashion Apparel Units 3

Prerequisites: FCS 48A.
Limitations on Enrollment: None.
Advisories: None.

This course is a study of the development of patterns into slopers for the designing and styling of slacks, jumpsuits, culottes, and dresses. A basic sloper is used to design cut-in-one dresses. (CSU)

FCS 49A Custom Clothing Techniques Units 2-3

Prerequisites: FCS 47A.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide information on custom dressmaking and tailoring techniques which are found in luxury-priced designer apparel and haute couture designs. (CSU)

FCS 49B Custom Clothing Techniques Units 3

Prerequisites: FCS 49A.
Limitations on Enrollment: None.
Advisories: None.

This course is a study of practical applications of custom clothing techniques. Students design original garments using various custom clothing and haute couture techniques. (CSU)

FCS 50H Special Studies: Family and Consumer Sciences Units 1-2

Prerequisites: Completion of entry level Family & Consumer Sciences courses with a grade of B or better.
Limitations on Enrollment: None.
Advisories: None.

This course is open to any student qualified to do advanced work in the field of family and consumer sciences or closely related areas. The course includes research, directed reading, field work, or other advanced study, and the course may be repeated for maximum of four units. (CSU)

FCS 51 Fashion Illustration Units 1.5

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to develop graphic skills necessary for students planning a fashion career. Emphasis is placed on capturing fashion styles and ideas and translating them to paper. (CSU)

FCS 52 Fashion Field Study Units 2-4

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to enable students to apply merchandising principles to job situations. Experience gained as a result of this course familiarizes students with career options. (CSU)

FCS 60A Parent Toddler Learning Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to introduce students to factors involved in planning quality care for toddlers. Basic principles of growth and development are discussed with emphasis on how caregivers can facilitate development of toddlers. (CSU)

FCS 60B Parent Toddler Communication Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is an emphasis on adult involvement in the educational process. Course content includes early toddlerhood versus late toddlerhood, common adjustment problems of toddlers, learning through play, and transition from toddlerhood to preschool years. (CSU)

FCS 61A Parent Child Learning Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is an emphasis on the involvement of parents in the educational process. The course content includes preschool adjustment, preschool evaluation, setting learning goals, and home-school partnership. (CSU)

FCS 61B Parent Child Communication Units 2

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is an emphasis on parent involvement in the educational process. The course content includes stages of development, problems with preschoolers, evaluating learning environments, community resources, and kindergarten readiness. (CSU)

FCS 62 Positive Parenting Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to help parents attain meaningful interaction with their children and to learn the skills of effective disciplines, open communication, and values clarification.

FCS 63 Child Discipline Units 1

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide the preschool teacher and parent with theory and techniques related to discipline. Topics include definitions of discipline, cultural differences, and practical approaches to discipline.

FCS 70 Introduction to Family Day Care Units 1*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is an introduction to current licensing regulations, insurance, and record keeping requirements which affect the operation of family day-care homes. Students are introduced to child development principles and age appropriate activities suitable to small groups and home environments.

FCS 71 Children, Imagination, and Books Units 1*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is recommended for students, parents, and educators who want a better understanding of how books contribute to the creativity, language, and emotional development of young children. Emphasis is placed on the selection and evaluation of children's literature and the ways to use books to enrich the lives of children.

FCS 72 Play and Learning Units 1*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course examines play as a learning process of infants, toddlers, and preschoolers. Social, physical, and intellectual benefits of play are analyzed. The cross-cultural aspects of play are emphasized. This course is recommended for teachers, caregivers, and parents.

FCS 73 Preschool Art Units 1*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is a study of art experiences for children 2 to 6 years of age as it relates to the individual child's growth and development. The course is designed for preschool, child care, and kindergarten teachers, teacher aides and parents.

FCS 74 Preschool Science Units 1*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to help parents and those working with children in exploring children's environments. Science education theory and practical activities are presented.

FCS 75A Introduction to Training Procedures for Autistic Children Units 3*Prerequisites: FCS 21.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to introduce students to the roles and responsibilities of trainers of autistic children. Students gain an understanding of basic training procedures and they have the opportunity to observe and assist in the implementation of those procedures. The biological basis of learning, challenges faced by an individual with autism, and skills needed to function in a learning situation are discussed.

FCS 75B Working with Autistic Children Units 3*Prerequisites: FCS 75A.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to provide students with knowledge of advanced training procedures for autistic children. Advanced training procedures and methods of applying these procedures are discussed and demonstrated. Issues of reinforcement, contingencies, stimulus control, generalization, fluency, delay of reinforcement, and functional analysis are discussed. Successful completion of the course prepares students as trainers of autistic children.

FCS 76 Early Childhood Education Adult Supervision Units 2*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to prepare early childhood education students to become mentor teachers. Methods and principles of supervising and evaluating student teachers, new teachers, volunteers, and other adults in an early childhood classroom are studied. Emphasis is on the various roles of an early childhood education mentor teacher.

FCS 77 Adapting Activities and Toys for Children with Exceptional Needs Units 1*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to focus on adapting common toys, activities, and environment for children aged infancy to six years with exceptional needs. The course is concentrated on adapting toys and activities designed to develop children's communication through social and emotional, physical, and cognitive skills. The course is designed for child-care providers, preschool and kindergarten teachers, teachers aides, and parents.

FCS 78 Child Day Care: Nutrition and Meal Planning Units 2*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to teach child care providers their role and responsibilities in providing meals to children which comply with legislature and budgetary parameters. Topics covered include children's nutrition, menu planning, cost analysis, safety and sanitation.

FCS 80 Selected Topics: Family and Consumer Sciences 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 family and consumer studies not already covered by existing curricula.

FCS 81 Wardrobe Planning Units 1*Prerequisites: None.**Limitations on Enrollment: None.**Advisories: None.*

This course is designed to examine factors that influence wardrobe planning including color, texture, pattern design, and figure types. Purchasing guidelines and clothing fit are also included.

FCS 82 Sewing for Children Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course places emphasis on sewing techniques that produce durable, comfortable, attractive, and economical children's clothes. Selection of patterns, fabric and notions; construction methods and special techniques for children's clothing will be covered in this course.

FCS 83 Issues in Early Childhood Education Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to offer a broad understanding of current issues in early childhood education from several perspectives. The course is offered in conjunction with the annual early childhood education full day conference. Units in this course do not count toward the Associate Degree.

FCS 90 Nutrition and Cooking Skills Units 1.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed for individuals with developmental disabilities seeking independent living status. Topics covered include cooking techniques and pertinent nutrition information.

FCS 91 Medical Nutrition Therapy Units 3

Prerequisites: FCS 6.

Limitations 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.

FCS 93V Work Experience: Family and Consumer Studies Units 1-8

Prerequisites: None.

Limitations on Enrollment: The student must enroll in a course that is directly related to the family and consumer studies 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 agreements.

Advisories: GUID 30, 31, 32, 33.

This course is designed for students employed in family and consumer studies. The course objectives are developed by the students in consultation with their supervisor. Students are engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140.

FCS 98 Foster and Adoptive Parent Pre-Service Training and Assessment Units 2

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce students to the roles and responsibilities of foster and adoptive parents. The specific steps required to become a licensed foster parent and the role of the professional child welfare team are discussed.

FCS 99A Meeting the Developmental Needs of Children at Risk Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enhance students understandings of the basic needs of children at risk. Techniques to enhance the growth and development of foster and adoptive children are presented.

FCS 99B Sexual Development and Signs of Sexual Abuses Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enhance students understandings of development issues related to sexuality, to recognize sexual abuse, and the appropriate responses to children who have been abused. The focus of this course is upon foster and adoptive children.

FCS 99C Supporting Relationships between Children and Their Families Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to identify the ongoing role birth families play in development of foster and adoptive children. Methods for involving birth families in meeting children's developmental needs are outlined.

FCS 99D The Child Welfare Team Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to identify the role of foster and adoptive parents as members of the child welfare team. Emphasis is on the development of skills needed to function as a team member.

FCS 99E Nurturing Lifetime Relationships Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enhance the students understanding of the goals of foster and adoptive parenting. Methods of helping children achieve safe and nurturing lifetime relationships are discussed.

FCS 99F Using Discipline to Protect and Nurture Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to identify methods of discipline that can be utilized by foster and adoptive parents to protect, nurture, and meet the developmental needs of children.

FCS 99G Promoting Children's Personal and Cultural Identity Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to identify the importance of promoting the self-esteem of foster and adoptive children through personal history and culture. Techniques for promoting a positive sense of identity are emphasized.

FCS 99H The Impact of Placement on Foster Families Units 0.5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enhance foster parents' understanding of the effect fostering can have on families. Emphasis is placed on methods to manage change and minimize stress.

FCS 99I The Impact of Chemical Dependency on Children and Families Units 1

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce students to the effects of chemical dependency on children and families. Emphasis is placed on the foster and adoptive experience.

FIRE TECHNOLOGY

FIRE 24 Firefighting Strategy and Tactics Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is a review of fire chemistry, equipment and manpower, basic firefighting strategy and tactics, and methods of attack and preplanning fire problems. (CSU)

FIRE 69V Internship: Fire Technology Units 1-8

Prerequisites: None.

Limitations on Enrollment: The student must enroll in a course that is directly related to the fire 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 fire 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)

FIRE 70 Fire Protection Organization Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting fire services, fire service nomenclature, specific protection functions, basic fire chemistry and physics. Fire protection systems and fire strategy and tactics are introduced.

FIRE 71 Fire Prevention Technology Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation and fire safety education. The course provides skills necessary for California Fire Service Training and Education System, Certified Firefighter I and Fire Inspector I.

FIRE 72 Fire Protection Equipment and Systems Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers.

FIRE 73 Building Construction for Fire Protection Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to study the components of building construction that relate to fire/life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at fires/collapse emergencies. The development and evolution of building and fire codes is studied in relationship to past fires/collapses in residential, commercial, and industrial occupancies.

FIRE 74 Fire Behavior and Combustion Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to: present theories and fundamentals of how and why fires start, spread, and are controlled; an in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents; and fire control techniques.

FIRE 90 Selected Topics: Fire Technology Units 0.5-2

Prerequisites: Successful completion of FIRE 91.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to enable the College to offer instruction in Fire technology not already covered by the existing curriculum. This would include newly enacted mandates of the California State Fire Marshal and Agency specific training/instruction needs. Units earned in this course do not count toward the Associate Degree.

FIRE 91 Basic Fire Academy Units 9.3

Prerequisites: None.

Limitations on Enrollment: Possession of a valid California Driver's License, medical certificate of fitness and felony disclaimer; (California Government Code, Sections 1021-1031.5).

Advisories: None.

This course is designed to provide basic skills for in-service and pre-service fire-service personnel. This course satisfies the State of California, Office of the Fire Marshal, and the State Board of Fire Services curriculum for Fire Fighter I.

**FIRE 91V Work Experience: Units 1-8
Fire Technology**

Prerequisites: None.

Limitations on Enrollment: The student must enroll in a course that is directly related to the fire technology 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 for students employed in fire science. The course objectives are developed by the students in consultation with their supervisor. Students are engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140.

FIRE 92 Fire Investigation Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to present theories and fundamentals of fire/explosion investigation techniques. The course material includes theory of legal search and seizure, burn pattern analysis, collection of evidence, ignition sources, fire investigations of structures, vehicles and wildland, report writing, and testifying in court as a fire cause and origin expert. This course is consistent with California State Fire Marshal Curriculum Fire Investigation 1A.

FIRE 94 Advanced Fire Service Training Units 4

Prerequisites: FIRE 91 or equivalent; exempt from assessment testing.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide students with a knowledge of current methods of general fire service operations to update and further develop basic skills and knowledge acquired in entrance level training and to develop an awareness and knowledge of changes in the fire service occupational field. The course may be repeated three times. Units earned for this course do not count toward the associate degree.

FIRE 95A Fire Command, Strategy and Tactics Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an in-depth analysis of the principles of fire command and fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.

FIRE 95B Incident Command Units 2

Prerequisites: FIRE 91.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to provide fire fighters and county officers a review of incident command procedures with emphasis on those principles relative to hazardous materials incidents. This course is consistent with California State Fire Marshall curriculum Command 1B.

FOOD TECHNOLOGY

FOOD 30 Wines and Winemaking Units 3

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

This course is an introduction to wine technology including history, fermentation, production practices, wine types, and the wine industry in San Joaquin County, California and other wine producing areas. (UC, CSU)

FOOD 50H Special Studies: Food Science Technology 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 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)

FRENCH

FREN 1 Elementary French Units 5

Prerequisites: None.

Limitations on Enrollment: None.

Advisories: None.

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

FREN 2 Elementary French Units 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 cultures. Emphasis is placed on the following skills in the order given: listening, speaking, reading, and writing. (UC, CSU, CAN FREN 4, CAN FREN Seq A with both FREN 1 and 2)

FREN 3 Intermediate French Units 5

Prerequisites: Successful completion of FREN 2 or 54.

Limitations on Enrollment: None.

Advisories: None.

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

FREN 4 Intermediate French Units 5

Prerequisites: Successful completion of FREN 3.

Limitations on Enrollment: None.

Advisories: None.

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

FREN 36A Introductory French Conversation Units 2

Prerequisites: Successful completion of FREN 1 or FREN 51.

Limitation on Enrollment: None.

Advisories: None.

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

FREN 36B Beginning French Conversation Units 2

Prerequisites: Successful completion of FREN 2 or 53.

Limitation on Enrollment: None.

Advisories: None.

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

FREN 38A Special Assignment: Listening Units 2

Prerequisites: Concurrent enrollment in or completion of FREN 1 or 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 need of the student. The course is offered for individual or group study. (CSU)

FREN 38B Special Assignment: Pronunciation Units 2

Prerequisites: Concurrent enrollment in or completion of FREN 1 or 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 need of the student. The course is offered for individual or group study. (CSU)

FREN 38C Special Assignment: Reading Units 2

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

Limitation 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 need of the student. The course is offered for individual or group study. (CSU)

FREN 38D Special Assignment: Writing Units 2

Prerequisites: Concurrent enrollment in or completion of FREN 1 or 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 need of the student. The course is offered for individual or group study. (CSU)

FREN 50H Special Studies: French Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; FREN 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 four units. (UC, CSU)

FREN 51 Elementary French Units 2.5

Prerequisites: None.

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: None.

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: 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 20 Introduction to Geographic Information Systems (GIS) Units 3

Prerequisites: Reading level II.

Limitations on Enrollment: None.

Advisories: None.

This course is designed to introduce the student to the concepts, techniques and tools of a Geographic Information System (GIS), including data acquisition, management, manipulation and analysis, and cartographic output. GIS is a computer-based data processing tool used to manage and analyze spatial information. Applications of GIS include environmental assessment, analysis of natural hazards, site analysis for business and industry, resource management, and land-use planning. (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

GEOLOG 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)

GEOLOG 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)

GEOLOG 50H Special Studies: Geology 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. 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)