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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 emphasized. (UC, CSU)

DANCE 5A  Introductory Production: Units 3
Repetory 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
Repetory 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
Repetory 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
Repetory 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 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 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 introduce students to advanced levels of
DANCE 20A  Introductory Theatre Dance Units 0.5-1
and Movement
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is a study of the role of choreographed dance and the
development of basic skills and body agility necessary for participa-
tion in theatre productions. Sections are offered in jazz and tap. (UC,
CSU)

DANCE 20B  Beginning Theatre Dance Units 0.5-1
and Movement
Prerequisites: DANCE 20A.
Limitations on Enrollment: None.
Advisories: None.
This course is a study of the role of choreographed dance and the
development of various skills, dance movements, techniques, and
styles for participation in theatre productions. Sections are offered
in jazz and tap. UC, CSU)

DANCE 20C  Intermediate Theatre Units 0.5-1
Dance and Movement
Prerequisites: DANCE 020B.
Limitations on Enrollment: None.
Advisories: None.
This course is a study of the role of choreographed dances and the
variety of intermediate styles, rhythms, improvisations, and tech-
niques and skills needed for participation in theater production.
Lecture and discussions are included. (UC, CSU)

DANCE 20D  Advanced Theatre Dance Units 0.5-1
and Movement
Prerequisites: DANCE 20C.
Limitations on Enrollment: None.
Advisories: None.
This course is a study of the role of choreographed dances and the
variety of advanced styles, rhythms, improvisations and techniques,
and skills need for participation in theater productions. (UC, CSU)

DANCE 50H  Special Studies: Dance Units 1-2
Prerequisites: Completion of survey course with a grade of 'B' or
ter 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, math-
ematics, and English as a Second Language (ESL). (CSU)

DV ED 75  Selected Topics: Units 0.5-3
Learning Skills
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, math-
ematics, 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 pro-
vides each student with individualized diagnosis, prescription, and
instruction to acquire mastery of computational and problem-solv-
ing 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 pro-
vides each student with individualized diagnosis, prescription, and
instruction to acquire mastery of computational and problem-solv-
ing skills. Units earned in this course do not count toward the
associate degree.
DV ED 78C  Applied Mathematics Laboratory  Units 0.5-3
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 Laboratory  Units 0.5-3
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 Laboratory  Units 0.5-3
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 individual 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: 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 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 individualized 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: Units 0.5
Introduction
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: Units 0.5
Beginning
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: Units 0.5
Intermediate
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: Units 0.5
Advanced
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 mathemat-
ics 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

DIESL 41 Heavy Duty Brakes Units 3
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to give technical information and to develop skill in executing work on air-brake systems. Basic instruction is given through practical work on truck-brake systems and related mock-ups in preparation for employment in the truck and diesel industry. (CSU)

DIESL 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 given 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)

DIESL 43 Heavy Duty Truck Components Units 3
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to give technical information and to develop skills in executing work on differentials, steering systems, and suspension systems. Basic and advanced instruction is given through practical work on truck components used in today’s modern truck in preparation for employment in the truck and diesel industry. (CSU)

DIESL 44 Diesel Engine Principles Units 3
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to give technical information and to develop skills in executing work on engines and vehicle maintenance. Basic instruction is given through practical work on diesel engines and related mock-ups in preparation for employment in the truck and diesel industry. (CSU)

DIESL 45 Diesel Engine Repair Units 4.5
Prerequisites: DIESL 44, or concurrent enrollment in DIESL 44.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to prepare students to enter the truck and diesel industries. The course provides for advanced technical information covering complete overhaul and testing of diesel engines used in different makes of trucks. (CSU)

DIESL 46 Diesel Engine Fuel and Tune-Up Units 3
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to give technical information and to develop skill in executing work on diesel fuel systems. Basic and advanced instruction is given through practical work on diesel fuel pumps, injectors and engines in the preparation for employment in the truck and diesel industry. (CSU)

DIESL 47 Diesel Air Conditioning Units 2
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to give technical information and to develop skill in working on air conditioning systems. Basic and advanced instruction is given 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 students technical information and to develop skill in executing work on electronic diesel engines. The operation, construction, and service procedures on various manufacturers’ electronic fuel systems used in today’s modern trucks are covered. (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 an 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 3*
*Prerequisites: DIESL 40A or DIESL 41A.*
*Limitations on Enrollment: None.*
*Advisories: None.*
This course is designed to assist advanced students in gaining a better knowledge in an area to further prepare themselves to enter the diesel trade. The time and work covered is developed at the beginning of the course between the student and the instructor.

**DIESL 87B Diesel Specialization**
*Units 5*
*Prerequisites: DIESL 40A or DIESL 41A.*
*Limitations on Enrollment: None.*
*Advisories: None.*
This course is designed to assist advanced students in gaining a better knowledge in an area to further prepare themselves to enter the diesel trade. The time and work covered is developed at the beginning of the course between the student and the instructor.

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**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.*
*Corequisites: 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.*
*Corequisites: 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.*
*Corequisites: 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.*
*Corequisites: 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.*
*Corequisites: None.*
*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 physical structure, representative plays, practices and theatre traditions from 1800 to present day in Europe and America. (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 variety of advanced styles, rhythms, improvisations, techniques, and skills needed for participation in theater production. (UC, CSU)

DRAMA 17B Beginning Theatre Dance and Movement Units 0.5-1
Prerequisites: DRAMA 17A.
Limitations on Enrollment: 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 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 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 17E Advanced Fencing Units 1-1.5
Prerequisites: DRAMA 17B.
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 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 17F Beginning Fencing Units 1-1.5
Prerequisites: DRAMA 17A.
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. The course is offered in jazz and tap modes. (UC, CSU)

DRAMA 17G Intermediate Fencing Units 1-1.5
Prerequisites: DRAMA 17B.
Limitations on Enrollment: None.
Advisories: None.
This course is provided for the development of the intermediate skills and techniques of fencing with the three comparative 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 17H Advanced Fencing Units 1-1.5
Prerequisites: DRAMA 17C.
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 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)
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**

Prerequisites: DRAMA 19A.
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**

Prerequisites: DRAMA 19B.
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**

Prerequisites: DRAMA 19C.
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**

Prerequisites: DRAMA 20A.
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**

Prerequisites: 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**

Prerequisites: Qualified performer.
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**

Prerequisites: DRAMA 25A; qualified performer.
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**

Prerequisites: DRAMA 25B; qualified performer.
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**

Prerequisites: DRAMA 25C; qualified performer.
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**

Prerequisites: DRAMA 25D: concurrent enrollment in DRAMA 1 or completion of DRAMA 10; qualified performer.
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 I 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 for public performance. (UC, CSU)

**DRAMA 28A Musical Revue Cabaret Units 1.5**
- Theatre
- 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 Units 1.5**
- Theatre
- 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 Units 1.5**
- Theatre
- 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 Units 1.5**
- Theatre
- 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**

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**

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**

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**

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**

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**

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 45B Introductory Children’s Theatre**

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for play selection, acting, movement, and rehearsal and culminating in a public performance for a children’s audience. (CSU)

**DRAMA 45C Beginning Children’s Theatre**

Prerequisites: DRAMA 45B.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for play selection, acting, movement, and rehearsal and culminating in a public performance for a children’s audience. (CSU)

**DRAMA 45D Intermediate Children’s Theatre**

Prerequisites: DRAMA 45C.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for intermediate play selection, acting, movement, and rehearsal and culminating in a public performance for a children’s audience. (CSU)

**DRAMA 45E Advanced Children’s Theatre**

Prerequisites: DRAMA 45D or equivalent.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for advanced problems in acting, directing, movement, and public performance for children’s audience. (CSU)

**DRAMA 47A Musical Theatre Workshop**

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**

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, 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 47C Musical Theatre Workshop**

Prerequisites: DRAMA 47B; qualified performer.
Limitations on Enrollment: None.

*DRAMA 45B, C, D, and E have been replaced by DRAMA 44A, B, C, D, beginning 1999-2000.*
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 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 Theatre Production Units 3
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 Theatre Production Units 3
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 with a particular emphasis on ensemble playing. (UC, CSU)

**DRAMA 49C** Summer Musical Theatre Production Units 3
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 49D** Summer Musical Theatre Production Units 3
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: Technical Units 1-2
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 4 units. (UC, CSU)

**DRAMA 50E** Special Studies: House/Box Units 1-2
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 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. (UC, 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. (UC, CSU)

**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 curricula.

**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.
Limitations 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 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.

ELECTRON MICROSCOPY

E M 11  Photography for Laboratory  Units 2
Technicians
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
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

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

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

Prerequisites: BIOL 1 with a grade of “C” or better and None.
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

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

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

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

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

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

Prerequisites: EM 38 with a grade of “C” or better, and None.
Limitations on Enrollment: None.
Advisories: None.
This course is a lecture and laboratory course which covers advanced preparation methods for biological specimens for observation in the scanning electron microscope (SEM). (CSU)

**E M 41** Analytical Scanning Electron Microscopy

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

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

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: EM 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: EM 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: EM 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: EM 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: EM 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: ELECT 11.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to introduce students to digital devices and their applications. Students explore a variety of these devices and learn the theory and application of major groups. Students are prepared for advancement to microprocessor 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: ELECT 14A.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to allow students to continue the development of skills necessary to troubleshoot electronics equipment. Emphasis in training is placed on 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 allow students to develop the skills necessary to troubleshoot computers. Emphasis in training is placed on 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: ELECT 13A.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to be an entry level study of the microprocessor 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)

ENGINEERING

ENGR 1 Introduction to Engineering 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 4
Prerequisites: E TECH 12 with a grade of “C” or better.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to encompass the principles of orthographic drawing, descriptive geometry applications, and graphical analysis. Students demonstrate documentation of engineering problems using freehand drawing, instrument 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; PHYS C 4A or concurrent enrollment in PHYS C 4A.
Limitations 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; any with a grade of “C” or better.
Prerequisites: None.
Advisories: None.
This course is a study of surveying principles incorporating the use of electronic instrumentation. Applications include computational practices, fieldwork, and project summary work related to: measurements (linear and angular, horizontal and vertical), layouts, traverse adjustments, areas, state plane coordinates, boundary surveys, mapping, horizontal curves, vertical curves, and earthwork computations. (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 20 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 designed for four-year engineering and technology transfer students. Topics include the fundamental methods of surveying field and office work required in traverses, engineering construction projects, photogrammetry, route surveying, and property delineation. (UC, CSU)

ENGR 21 Applied Basic Programming for Technology Units 3
Prerequisites: MATH 31, or 36, or 87 with a grade of “C” or better, or concurrent enrollment in MATH 31 or 36 or 87.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to emphasize the computational power of the programming language BASIC for technical problem solving. The course offers programming applications in science and technology related to the electrical, electronic, civil, and mechanical engineering areas. Microcomputers are used. No prior programming experience is needed. (CSU)

ENGR 27 Engineering FORTRAN Units 3
Prerequisites: MATH 20, or 31, or 36, or 87 with a grade of “C” or better.
Limitations on Enrollment: None.
Advisories: None.
This course is an introduction to the development of computer programs in the FORTRAN programming language. The course includes input-output processing, arithmetic calculations, and the use of logical expressions. Computer programs are assigned to assist students in developing competency in the language. This course is designed primarily for mathematics and engineering students. (UC, CSU)

ENGR 46 Electronic Drafting for Technicians Units 3
Prerequisites: None.

Limitations on Enrollment: None.
Advisories: None.
This course is intended for electronics technology program students and covers conventional electronics drafting practices. Specific topics will include symbology, dimensioning, units and terminology, block diagrams, logic diagrams, schematics, integrated circuits, wiring diagrams, packaging, and printed circuit board layout. (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 58B AutoCAD Customization Units 2
Prerequisites: ENGR 58A or ARCH 58A with a grade of “C” or better.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to cover advanced applications and customization of AutoCAD software. Topics covered include blocks and attributes, script files, shape files, tablet menu modification, screen menu modification, three dimensional

ENGR 58C Computer Aided Drafting Projects Units 1
Prerequisites: ARCH 58A or ENGR 58A.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to allow students to apply AutoCAD to their area of specialization. Students select individual projects applicable to their discipline. The instructor provides individualized instruction as necessary. (CSU)

ENGR 58D AutoCAD Three Dimensional Modeling Units 2
Prerequisites: ENGR 58A, or ARCH 58A, with a grade of “C” or better.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to cover construction of three dimensional models using AutoCAD software. Topics covered include wireframe, surface, and solids modeling. (CSU)

ENGR 58E AutoLISP Programming Units 2
Prerequisites: ENGR 58A, or ARCH 58A, with a grade of “C” or better.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to cover programming using AutoLISP, AutoCAD’s applications customization language. Topics covered include programs using simple sequence, branching, and looping structures. AutoLISP are also used to access and change the drawing database. A previous course involving computer logic or programming is recommended. (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 72A Introduction Human Powered Vehicle Design and Construction
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 72B Beginning Human Powered Vehicle Design and Construction
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 72C Intermediate Human Power Vehicle Design and Construction
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 72D Advanced Human Power Vehicle Design and Construction
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 73 Trade Technician Drafting Skills
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to provide students with the sketching and drafting skills required of technicians who work in the mechanically oriented trades. Topics include: orthographic projections, dimensioning, isometric views, sectioning, auxiliary views, assembly drawings, introduction to tolerances, surface finishes, threads, and welding.

ENGR 75 Selected Topics: Engineering
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 3 Engineering Drafting Skills
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.

This course is designed to introduce the students to 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 given. (CSU)

E TECH 11 Engineering Drafting
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
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
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
Prerequisites: MATH 80 with a grade of “C” or better.
Limitations on Enrollment: None.
Advisories: None.

This course is designed for technology students. The course gives
the student 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 covered. A variety of measuring techniques used in practice is included. (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 31 Fundamentals of Civil Drafting** Units 3
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 of structural plans and structural details including steel, wood, masonry, and reinforced concrete structures. A complete project portfolio is developed. (CSU)

**E TECH 32 Technical Statics** 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 a study of both the theories and fundamentals of forces, their action, and distribution on and within objects at rest. (CSU)

**E TECH 34 Machine Drafting** Units 3
Prerequisites: E TECH 11; E TECH 12; both with a grade of “C” or better.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to prepare students to draw 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: ENGR 2; E TECH 11; MATH 80; all with a grade of “C” or better.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for students to apply the engineering design process and common applications of basic machine design principles. Topics covered include the engineering design process, materials used in engineering fabrications, manufacturing processes, stress analysis, tolerancing considerations, fasteners, permanent joints, shafts and couplings, bearings, belts and chains, gears, and clutches and brakes. (CSU)

**E TECH 37 Electronic Drafting** Units 3
Prerequisites: E TECH 12 or ARCH 58A.
Limitations on Enrollment: None.
Advisories: None.
This course is an introduction to conventional electronics drafting practices. Specific topics include symbology, dimensioning, pictorial illustrations, units and terminology, block diagrams, logic diagrams, schematics, integrated circuits, wiring diagrams, packaging and printed circuit board layout. (CSU)

**E TECH 41 Civil Drafting: Site Design and Improvement** Units 4
Prerequisites: E TECH 12; MATH 80; all with a grade of “C” or better.
Limitations on Enrollment: None.
Advisories: None.
This course is an introduction to the development and design of site plans, including parking, storm drainage systems, sewage piping, and site preparation. Students prepare a set of drawings with calculations and cost estimates for a site improvement plan. A complete project portfolio is developed. (CSU)

**E TECH 42 Technical Strength of Materials** Units 3
Prerequisites: ENGR 8 or E TECH 32.
Limitations on Enrollment: None.
Advisories: None.
This course is a study of internal stresses caused by external forces. The course presents both the theory and procedures required for the design of structural members such as truss members, beams, columns, connections, and machine parts, including shafts, linkages, and supporting systems. (CSU)

**E TECH 43 Principles of Fluid Mechanics** 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 fluid theory, engineering problem solving techniques, and experimental laboratory procedures. The course includes technical concepts related to fluid definitions, fluid properties, hydrostatics, flow of ideal fluids, flow in pipes and open channels, and mechanical hydraulic systems. (CSU)

**E TECH 45 Practical Machine Design** Units 3
Prerequisites: E TECH 12; MECH 15; both 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 systems 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 70 Applied Surveying**

**Units: 3**

**Prerequisites:** MATH 80 with a grade of “C” or better.

**Limitation on Enrollment:** None.

**Advisories:** None.

This course is designed for engineering technicians. The course uses an applications-oriented approach in covering the methods of surveying field and office work related to traverses, horizontal measurements, elevations, and mapping.

**E TECH 72 Applied Statics**

**Units: 3**

**Prerequisites:** MATH 80 with a grade of “C” or better.

**Limitation on Enrollment:** None.

**Advisories:** None.

This course is an applications-oriented approach to solving equilibrium problems dealing with the effect of forces acting on and within objects at rest.

**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 80 Applied Surveying**

**Units: 3**

**Prerequisites:** None.

**Limitation on Enrollment:** None.

**Advisories:** None.

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.

**E TECH 82 Applied Strength of Materials**

**Units: 3**

**Prerequisites:** MATH 80 with a grade of “C” or better.

**Limitation on Enrollment:** None.

**Advisories:** None.

This course is an applications-oriented approach in the study of internal stresses caused by external forces. The basic procedures followed in the design of structural members such as truss members, beams, columns, connections and machine parts, including shafts, linkages, and supporting systems are stressed.

**E TECH 83 Applied Fluid Mechanics**

**Units: 3**

**Prerequisites:** MATH 80 with a grade of “C” or better.

**Limitation on Enrollment:** None.

**Advisories:** None.

This course is an applications-oriented approach in problem solving and laboratory work related to fluid definitions, fluid properties, hydrostatics, flow of ideal fluids, flow in pipes and open channels, and mechanical hydraulic systems.

**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 1B)

**ENG 1B Written Communications**

**Units: 3**

**Prerequisites:** ENG 1A with a grade of “C” or better.

**Limitation 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 1C Written Communications**

**Units: 3**

**Prerequisites:** ENG 1A and 1B with a grade of “C” or better.

**Limitation 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 1D Critical Composition**

**Units: 3**

**Prerequisites:** ENG 1A with a grade of “C” or better.

**Limitation 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.

**Limitation 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 .5-2
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to offer specialized topics related to the teaching of critical reading and writing skills. Specific topics appear in the semester schedule of courses. (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 1-2
Tutor Center
Prerequisites: Grade “B” or better in the appropriate content area.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for students who wish to work as content tutors at San Joaquin Delta College. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques, interpersonal relationships, methods and materials. This course may be repeated for a maximum of four units. (CSU)

ENG 32B Seminar in Communications: Units 1-2
Writing Laboratory
Prerequisites: Grade “B” or better in the appropriate content area.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for students who wish to work as content tutors at San Joaquin Delta College. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques, interpersonal relationships, methods and materials. This course may be repeated for a maximum of four units. (CSU)

ENG 32C Seminar in Communications: Units 1-2
Learning Assistance Center
Prerequisites: Grade “B” or better in the appropriate content area.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for students who wish to work as content tutors at San Joaquin Delta College. Emphasis in training will be placed on study skills, learning styles, problem solving, tutoring techniques, interpersonal relationships, methods and materials. This course may be repeated for a maximum of four units. (UC, CSU)

ENG 32E Seminar in Communications: Units 1-2
Basic Skills Mathematics Laboratory
Prerequisites: Grade “B” or better in the appropriate content area.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for students who wish to work as content tutors at San Joaquin Delta College. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques, interpersonal relationships, methods and materials. This course may be repeated for a maximum of four units. (UC, CSU)

ENG 32G Seminar in Communications: Units 1-2
ESL Laboratory
Prerequisites: Grade “B” or better in the appropriate content area.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for students who wish to work as content tutors at San Joaquin Delta College. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques, interpersonal relationships, methods and materials. This course may be repeated for a maximum of four units. (UC, CSU)

ENG 32I Seminar in Communications: Units 1-2
Learning Disability Laboratory
Prerequisites: Grade “B” or better in the appropriate content area.
Limitations on Enrollment: None.
Advisories: None.
This course is designed for students who wish to work as content tutors at San Joaquin Delta College. Emphasis in training is placed on study skills, learning styles, problem solving, tutoring techniques, interpersonal relationships, methods and materials. This course may be repeated for a maximum of four units. (UC, 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 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
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 Eng10, 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: 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 informational in a clear, precise manner.

ENG 73A Writing Laboratory: Beginning Units 2
Prerequisites: None.
Limitation on Enrollment: None.
Advisories: None.
This course is individualized writing practice in the paragraph and short essay for students of ENG 70C or for those with basic weaknesses in their written English or with limited English proficiency. The student’s level of performance 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 2
Prerequisites: None.
Limitation on Enrollment: None.
Advisories: None.
This course is designed to provide individualized writing practice in the academic essay commonly used in colleges today, including the descriptive, expository, narrative and argumentative modes and the descriptive-critical review. Units earned in this course do not count toward the associate degree.

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 ENG 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 Language Development Units 7**
Prerequisites: Placement is based on the CELSA, a writing sample, and oral interview.
Limitations 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. Units earned in this course do not count toward the associate degree.

**ENG 83 Beginning English Language Development Units 7**
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 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 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 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 86A English as A Second Language Laboratory Units 1-3**
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is an individualized English-as-a-Second-Language (ESL) laboratory. Audio-Visual materials, tutoring, and small-group instruction are available to aid students in developing language proficiency. Laboratory sections ENG 86A through F require concurrent enrollment in ENG 80, ENG 81, ENG 82, ENG 83, ENG 84, or ENG 85. ENG 86G through P are independent and individualized laboratory programs. Units earned in this course do not count toward the associate degree.

**ENG 86B English as A Second Language Laboratory Units 1-3**
Prerequisites: Concurrent enrollment in ENG 81.
Limitations on Enrollment: None.
Advisories: None.
This course is an individualized English-as-a-Second-Language (ESL) laboratory. Audio-visual materials, tutoring, and small group instruction are available to aid students in developing language proficiency. Units earned in this course do not count toward the associate degree.

**ENG 86C English as A Second Language Laboratory Units 1-3**
Prerequisites: Concurrent enrollment in ENG 82.
Limitations on Enrollment: None.
Advisories: None.
This course is an individualized English-as-a-Second-Language (ESL) laboratory. Audio-visual materials, tutoring, and small group instruction are available to aid students in developing language proficiency. Units earned in this course do not count toward the associate degree.
ENG 86D  English as A Second Language  Units 1-3  Laboratory
Prerequisites: Concurrent enrollment in ENG 83.
Limitations on Enrollment: None.
Advisories: None.
This course is an individualized English-as-a-Second-Language (ESL) laboratory. Audio-visual materials, tutoring, and small group instruction are available to aid students in developing language proficiency. Units earned in this course do not count toward the associate degree.

ENG 86E  English as A Second Language  Units 1-3  Laboratory
Prerequisites: Concurrent enrollment in ENG 84.
Limitations on Enrollment: None.
Advisories: None.
This course is an individualized English-as-a-Second-Language (ESL) laboratory. Audio-visual materials, tutoring, and small group instruction are available to aid students in developing language proficiency. Units earned in this course do not count toward the associate degree.

ENG 86F  English as A Second Language  Units 1-3  Laboratory
Prerequisites: Concurrent enrollment in ENG 85.
Limitations on Enrollment: None.
Advisories: None.
This course is an individualized English-as-a-Second-Language (ESL) laboratory. Audio-visual materials, tutoring, and small group instruction are available to aid students in developing language proficiency. Units earned in this course do not count toward the associate degree.

ENG 86G  English as A Second Language  Units 1-3  Laboratory
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is an individualized English-as-a-Second-Language (ESL) laboratory. Audio-visual materials, tutoring, and small group instruction are available to aid students in developing language proficiency. Units earned in this course do not count toward the associate degree.

ENG 86H  English as A Second Language  Units 1-3  Laboratory
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is an independent and individualized English-as-a-Second-Language (ESL) laboratory. Units earned in this course do not count toward the associate degree.

ENG 86I  English as A Second Language  Units 1-3  Laboratory
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is an independent and individualized English-as-a-Second-Language (ESL) laboratory. Units earned in this course do not count toward the associate degree.

ENG 86J  English as A Second Language  Units 1-3  Laboratory
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is an independent and individualized English-as-a-Second-Language (ESL) laboratory. 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: None.
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 H EC 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 H EC 8)

**FCS 10 Interior Design**  
Units 3  
Prerequisites: FCS 10.  
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 installa-

tion 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 designed to integrate the biological, cognitive, and psychosocial aspects of human development throughout the lifespan. The course is a study of the developmental tasks facing individuals at various points in the life cycle, and the ways social interaction and cultural institutions shape the development of the individual. It is designed as a foundation course for careers in educational, social service, psychological, and health fields. (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 H EC 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 H EC 12)

FCS 24 Adult Development and Aging 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 services and resources, 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 Units 2
Community Service Practicum
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: None.
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: Reading level II; FCS 21.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to prepare students to teach in various types of Early Childhood Education programs. Emphasis is on how a teacher can stimulate healthy growth and a positive self-image in children 2 1/2 to 5 years. The history of and current trends in ECE 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 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: None.
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 designed to increase the student's 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 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 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 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 59  The Growing Years  Units 2
Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is a study of the development of the child from the prenatal period through adolescence. The course examines the interplay of biological factors, human interaction, social structure, and cultural forces in shaping the growing child. Major psychological theories are introduced and followed through various stages of development. (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 childhood versus late toddlerhood, common adjustment problems of toddlers, learning through play, and transition from toddlerhood to preschool years. (CSU)
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<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Limitations on Enrollment</th>
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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 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 Abuse Units 0.5
FCS 99C  Supporting Relationships  Units 0.5
between Children and Their Families

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 1  Introduction to Fire Technology  Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is an introduction to the philosophy and history of fire service, organization and function of local, county, state, federal, and private fire agencies, and a survey of professional career opportunities. (CSU)

FIRE 3  Essentials of Firefighting  Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is an introduction to the theory and fundamentals of fire behavior including portable extinguishers, rope and knots, ladders, forced entry, water supply, rescue hose, hose streams, fire strategy, and emergency rescue. (CSU)

FIRE 5  Fundamentals of Fire Prevention  Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is an introduction to the function of the Fire Prevention Bureau including inspections, surveying and mapping procedures, recognition of fire hazards, engineering and solution of the hazard, enforcement of the solution, and public relations as affected by fire prevention. (CSU)

FIRE 6  Fire Protection Equipment and Systems  Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is a review and study of portable fire extinguishing equipment, automatic sprinkler systems, protection systems for special hazards, detection systems, fire alarms, and standpipe systems. (CSU)

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 28  Fire Hydraulics  Units 3

Prerequisites: None.
Limitations on Enrollment: None.
Advisories: None.
This course is a review of basic mathematics, the theory of water at rest in motion, engineering principle of formulas and mental calculations of fireground hydraulic problems including water supply problems, underwriters requirements for pumps, and rapid rule fireground operations. (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 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 provide prospective or active fire company officers with information and experience in command techniques. The course emphasizes decision-making, act of command, and an overview of fire service organizational structure. This course is consistent with California State Fire Marshall curriculum Command 1A. Planning and training are provided for effective performance of fire company officers at the scene of an emergency.

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 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 95A Fire Command Units 2
Prerequisites: FIRE 91.
Limitations on Enrollment: None.
Advisories: None.
This course is designed to provide prospective or active fire company officers with information and experience in command techniques. The course emphasizes decision-making, act of command, and an overview of fire service organizational structure. This course is consistent with California State Fire Marshall curriculum Command 1A. Planning and training are provided for effective performance of fire company officers at the scene of an emergency.

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 indu-
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. (UC, CSU)

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 needs of students. 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 needs of students. 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 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 needs of students. 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 needs of students. 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)

GEOL 2)