

Programs and Courses

MATH 21—Plane Trigonometry (3 units)**CSU**

Trigonometric functions, fundamental formulas, identities, solution of triangles, and complex numbers. Prerequisite: MATH 52 or equivalent with a grade of "C" or better. (LM)

MATH 25—Finite Math (3 units)**CSU/UC**

Introductory study to include logic, set theory, matrices, vectors, linear programming, simplex algorithm, combinatorial techniques; and mathematics of finance. Applications from science, accounting, marketing, production, and personnel management as time allows. Prerequisite: MATH 52 or equivalent with a grade of "C" or better. (LM)

MATH 50—Elementary Algebra (4 units)

Introductory algebra; topics include signed numbers, graphing, linear equations, quadratic equations, and systems of linear equations in two variables. Prerequisite: MATH 111 with a grade of "C" or better or qualifying score on *Placement Examination*. (L)

MATH 50A—Elementary Algebra - First Half (3 units)

Introductory algebra; topics include signed numbers, graphing, linear equations, and introduction to functions. Designed for a wide variety of students, including those who have been unsuccessful in Math 50, are math anxious, or desire a slower paced, year-long version of Math 50. Intended to provide students with additional exposure to algebraic concepts and additional time to practice them. This is the first half of Elementary Algebra and, together with Math 50B, is equivalent to Math 50 for courses that require Math 50 as a prerequisite. Prerequisite: MATH 111 with a grade of "C" or better or qualifying score on *Placement Examination*. (L)

MATH 50B—Elementary Algebra - Second Half (3 units)

Introductory algebra; topics include graphing, quadratic equations, absolute value equations, systems of linear equations in two variables, compound inequalities, and factorization of polynomials. Designed for a wide variety of students, including those who have been unsuccessful in Math 50, are math anxious, or desire a slower paced, year-long version of Math 50. Intended to provide students with additional exposure to algebraic concepts and additional time to practice them. This is the second half of Elementary Algebra and together with Math 50A, is equivalent to Math 50 for courses that require Math 50 as a prerequisite. Math 50B is also suitable for students who desire to review the latter part of Math 50 before taking Math 52. Prerequisite: MATH 50A with a grade of "C" or better. (L)

MATH 51—Plane Geometry (3 units)

Introductory plane geometry, the study of geometric relationships in the plane from an inductive and deductive viewpoint. Satisfies the university admission requirement of high school plane geometry. Prerequisite: MATH 50 or equivalent with a grade of "C" or better. (L)

MATH 52—Intermediate Algebra (3 or 4 units)

Fundamental operations of algebra, linear and quadratic equations and inequalities; exponents and polynomials; rational expressions; radicals and fractional exponents; graph of a straight line; linear and quadratic system of equations; conic sections; exponential and logarithmic functions. Prerequisite: MATH 50 or equivalent with a grade of "C" or better. (L)

MATH 52A—Intermediate Algebra First Half (3 units)

Topics include factoring polynomials, rational expressions, radicals, rational exponents and complex numbers. Designed for a variety of students, including those who have been unsuccessful in Math 52, are math anxious, or desire a slower-paced, year-long version of Math 52. Intended to provide students with additional exposure to algebraic concepts and additional time to practice them. This course is the first half of Intermediate Algebra. Math 52A and Math 52B must both be taken to be equivalent to Math 52 for courses that require Math 52 as a prerequisite, or to meet a degree requirement. Prerequisite: MATH 50 or equivalent with a grade of "C" or better. (LM)

MATH 52B—Intermediate Algebra Second Half (3 units)

Topics include quadratic equations and functions, exponential and logarithmic functions, conic sections, linear systems in three variables, nonlinear systems, and variation. Designed for a variety of students, including those who have been unsuccessful in Math 52, are math anxious, or desire a slower-paced, year-long version of Math 52. Intended to provide students with additional exposure to algebraic concepts and additional time to practice them. This course is the second half of Intermediate Algebra. Math 52A and Math 52B must both be taken to be equivalent to Math 52 for courses that require Math 52 as a prerequisite, or to meet a degree requirement. Prerequisite: MATH 52A or equivalent with a grade of "C" or better. (LM)

MATH 58—Quantitative Reasoning (3 units)

Interpretation of and reasoning with quantitative information. Coverage of logic; units analysis; uses and abuses of percentages, ratios, and indices; financial management; and statistics. This course satisfies the associate degree requirement but does not satisfy the prerequisite for a transferable math course. Prerequisite: MATH 50 or equivalent with a grade of "C" or better. (LM)

MATH 110—Arithmetic for College Students (3 units)

Whole numbers, fractions, mixed numbers, and decimals; concepts of prime and composite numbers and prime factorization; ratio, proportion, percent; rounding and estimating sums, differences, products, and quotients; applications and the reasonableness of answers are stressed; concepts, language usage, and reasoning skills are emphasized.

MATH 110A—Whole Numbers (1 unit)

Calculation of sums, differences, products, and quotients using whole numbers; concepts of prime and composite numbers; prime factorization; exponential notation; order of operations; rounding, and estimating answers; use of the scientific calculator; methods for solving word problems; applications and the reasonableness of answers are stressed; mathematical vocabulary.

MATH 110B—Fractions and Mixed Numbers (1 unit)

Calculation of sums, differences, products, and quotients using fractions and mixed numbers; conversion of mixed numbers to improper fractions and improper fractions to mixed numbers; exponentiation of fractions; order of operations; use of fractions in ratios, proportions, and problem-solving; use of scientific calculator; methods for solving word problems; applications and the reasonableness of answers are stressed; mathematical vocabulary.

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MATH 110C—Decimals and Percents (1 unit)

Calculation of sums, differences, products, and quotients using decimal numbers; concepts of exponential notation; ratios; proportions; order of operations; rounding; estimating answers; and converting decimals and percents and decimal numbers to fractions and mixed numbers; use of scientific calculator; methods for solving word problems involving decimals and percents; applications and the reasonableness of answers are stressed; mathematical vocabulary.

MATH 111—Prealgebra (4 units)

Seeks to develop algebraic thinking. Topics include: operations on the rational numbers; exponents; the order of operations; the real numbers and their decimal number representation; the field axioms; introduction to algebra; graphing in two dimensions; percent, ratio, proportion; basic geometry; conversion of units; and problem solving using equations.

METALWORKING-WELDING

(see Welding)

Music

MUSIC

(Associate in Arts)

Required Courses

Units

MUSIC 1A Elementary Harmony.....	3
MUSIC 1B Elementary Harmony.....	3
MUSIC 1C Elementary Theory Skills.....	1
MUSIC 1D Elementary Theory Skills.....	1
MUSIC 2A Advanced Harmony.....	3
MUSIC 2B Advanced Harmony.....	3
MUSIC 2C Advanced Theory Skills.....	1
MUSIC 2D Advanced Theory Skills.....	1
MUSIC 8A Music History.....	3
MUSIC 8B Music History.....	3
Total units required for degree major.....	22

MUSIC 1—Music Skills for Pre-Ed Majors (3 units) CSU

Development and application of basic music skills; study of notation, rhythm, melody, harmony, keyboard, recorder, and autoharp. For education majors and others with no previous experience in reading or playing music notation. Required music skills drill one hour a week minimum. Not open for credit with credit in ECE 21. (L)

MUSIC 1A—Elementary Harmony (3 units) CSU/UC

Review of music fundamentals. Emphasis on principle triads; part-writing procedures and analysis. Required of all music majors and minors. Corequisite: MUSIC 1C (Theory Skills) and MUSIC 8A (Music History). Students with no previous piano study should enroll in MUSIC 41A. (L)

MUSIC 1B—Elementary Harmony (3 units) CSU/UC

Continuation of MUSIC 1A. Study of diatonic harmony with introduction to secondary dominants and elementary modulation; exercises in part-writing, figured-bass, analysis, and melody harmonization. Required of all music majors and minors. Prerequisite: Music 1A Corequisite: MUSIC 1D. (L)

MUSIC 1C—Elementary Theory Skills (1 unit) CSU/UC

Exercises in applying theoretical concepts to the voice and keyboard. Emphasis on ear-training employing exercises in rhythmic reading and dictation, sight-singing, and melodic dictation. Required of all music majors and minors. Corequisite: MUSIC 1A or 1B or 2A or 2B.

MUSIC 1D—Elementary Theory Skills (1 unit) CSU/UC

Continuation of MUSIC 1C. Exercises in applying theoretical concepts to the voice and keyboard; emphasis on ear-training employing exercises in rhythmic reading and dictation, sight-singing, and melodic dictation. Required of all music majors and minors. Corequisite: MUSIC 1B. Prerequisite: MUSIC 1C.

MUSIC 2A—Advanced Harmony (3 units) CSU/UC

Theoretical and practical techniques of chromatic harmony studied through written exercises and analysis. Required of all music majors. Corequisite: MUSIC 2C. Prerequisite: MUSIC 1B. (L)

MUSIC 2B—Advanced Harmony (3 units) CSU/UC

Continuation of MUSIC 2A. Includes chromatic linear techniques of the common practice period, late 19th century, and 20th century techniques studied through analysis and written exercises. Required of all music majors. Corequisite: Theory Skills sequence. (MUSIC 1C or 1D or 2C or 2D.) Prerequisite: MUSIC 2A.

MUSIC 2C—Advanced Theory Skills (1 unit) CSU/UC

Continuation of MUSIC 1D. Exercises in applying theoretical concepts of music with emphasis on ear-training, exercises in rhythmic reading and dictation of rhythmic, melodic, and harmonic materials, and sight-singing. Required of all music majors. Corequisite: MUSIC 2A. Prerequisite: MUSIC 1D.

MUSIC 2D—Advanced Theory Skills (1 unit) CSU/UC

Continuation of MUSIC 2C. Exercises in applying theoretical concepts to the voice; emphasis on ear-training employing exercises in rhythmic reading and dictation, sight-singing, and melodic dictation. Required of all music majors. Corequisite: Music 2B. Prerequisite: Music 2C.

MUSIC 3—Music Appreciation (3 units) CSU/UC

Study of music in relation to the humanities; music and composers of the Western world from Medieval to the 20th Century. Not open for credit to student with credit in HUMAN 3. (L)

MUSIC 8A—Music History (3 units) CSU/UC

Chronological survey of Western art music with special emphasis on style, genres, composers, and important works; covers the period from antiquity to the early Baroque. Intended for the music major; ability to read music notation is essential; extensive listening to recorded examples required.

MUSIC 8B—Music History (3 units) CSU/UC

Chronological survey of Western art music with special emphasis on style, genres, composers, and important works. Covers the period from the early Baroque to the present day. Intended for the music major; ability to read music notation is essential; extensive listening to recorded examples required.

MUSIC 12—Jazz Appreciation (3 units) CSU/UC

General survey of jazz from its original and early development to present day; extensive listening to both recorded and live performances supports the lecture material. Not open for credit with credit in HUMAN 12. (L)

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MUSIC 14A—Conducting 1 (2 units)**CSU**

The study of style and technique of conducting with emphasis on interpretation and score analysis. Corequisite: Music 1A, 1C, or consent of instructor. (L)

MUSIC 15—Popular Music in the United States (3 units)**CSU/UC**

Survey of popular music in the United States from about 1850 to present; covers American Civil War songs, ragtime, blues, jazz, songwriting, musical theater, country music, Latin music styles, rock, and current trends. Not open for credit to student with credit in HUMAN 15. (L)

MUSIC 16—World Music (3 units)**CSU/UC**

Introduction to music as experienced through various world cultures including, but not limited to, Asia, India, the Middle East, Africa, Australia, and South America. Subcultures, such as Native American music and Ethnic North American music are also studied. Not open for credit to student with credit in HUMAN 16. (L)

MUSIC 17—Music as Culture (3 units)**CSU/UC**

A search of better understanding of what gives music meaning. Explorations into multiple genres, including classical, rock, rap, folk, Latino and world music with an emphasis on the nature of sound, meaning, diversity, performance and value judgments. Not open for credit to student with credit in HUMAN 17. (L)

MUSIC 18—Rock Music History and Culture (3 units)**CSU**

A survey of Rock music history with emphasis on its importance to culture and popular music. Covers the roots of rock, emergence and early styles, the Beatles/British Invasion, San Francisco, Folk Rock, Soul and Motown, Jazz Rock, Art Rock, Mainstream, Heavy Metal, Dance, Rap, and the Hip-Hop culture, Alternative and Progressive Rock. (L) Not open for credit to student with credit in HUMAN 18.

MUSIC 26R—Musical Theatre Workshop (3 units)**CSU**

Fundamentals of musical theatre performance; singing, acting, dancing, orchestra, and technical stagework. Students may specialize in area of interest. Works to be selected from various periods and styles. Participation in Yuba College production is required. (Repeatable: May be taken four times only.)

MUSIC 28R—Community Jazz Ensemble (1 unit)**CSU/UC**

Study and performance of jazz music literature. Grades are P/NP. (Repeatable: May be taken four times only.)

MUSIC 30AR—Applied Skills-Woodwinds (1 unit)**CSU/UC**

Improvement of technical facility, musicianship, and performing aspects of a woodwind instrument. For music majors with a concentration in either flute, oboe, clarinet, saxophone, or bassoon. Corequisite: Music 1C, 1D, 2C, 2D, or consent of instructor. (Repeatable: May be taken four times only.)

MUSIC 30BR—Applied Skills-Brass (1 unit)**CSU/UC**

Improvement of technical facility, musicianship, and performing aspects of a brass instrument. For music majors with a concentration in either trumpet, French horn, trombone, euphonium, or tuba. Corequisite: Music 1C, 1D, 2C, 2D, or consent of instructor. (Repeatable: May be taken four times only.)

MUSIC 30CR—Applied Skills-Composition (1 unit)**CSU/UC**

Application of theory and harmony skills to original music composition. Composing art music for piano, voice, and other instruments. Prerequisite: Music 2A or consent of instructor. (Repeatable: May be taken four times only.)

MUSIC 30DR—Applied Skills-Percussion (1 unit)**CSU/UC**

Improvement of technical facility, musicianship, and performing aspects of a percussion instrument. For music majors with a concentration in snare drum, timpani, and mallet instruments. Corequisite: Music 1C, 1D, 2C, 2D, or consent of instructor. (Repeatable: May be taken four times only.)

MUSIC 30ER—Applied Skills-Strings (1 unit)**CSU/UC**

Improvement of technical facility, musicianship, and performing aspects of string instruments. For music majors with a concentration in violin, viola, cello or contrabass. Corequisite: Music 1C, 1D, 2C, 2D, or consent of instructor. (Repeatable: May be taken four times only.)

MUSIC 30GR—Applied Skills-Classical Guitar (1 unit)**CSU/UC**

Improvement of technical facility, musicianship, and performing aspects of the classical guitar. Corequisite: Music 1C, 1D, 2C, 2D, or consent of instructor. (Repeatable: May be taken four times only.)

MUSIC 31R—Applied Skills-Piano (1 unit)**CSU/UC**

Individualized instruction in advanced piano literature with emphasis on improvement of technical facility, musicianship, and performance. For music major with a piano concentration. Corequisite: MUSIC 1A, 1B, 1C, or 1D; or MUSIC 2A, 2B, 2C, or 2D and MUSIC 8A or 8B. Prerequisite: MUSIC 42R (4 semesters) or equivalent proficiency. (Repeatable: May be taken four times only.)

MUSIC 32R—Applied Skills-Voice (1 unit)**CSU/UC**

Individualized instruction in vocal techniques, tone production, breathing, diction, and their application to the art song repertoire. One hour per week required in music lab. Required of vocal music majors. Prerequisite: MUSIC 40D or equivalent. Corequisite: MUSIC 34R, 54R, or 554. (Repeatable: May be taken four times only.)

MUSIC 33R—Chamber Choir (3 units)**CSU/UC**

Small vocal ensemble; study, preparation, and performance of sacred and secular music from Renaissance through contemporary period in style; audition is required. Concurrent enrollment in MUSIC 40A, 40B, 40C, 40D, or 32R required. (Repeatable: May be taken four times only.)

MUSIC 34R—Symphony Chorus (1 unit)**CSU/UC**

Study, rehearsal and performance of the standard choral literature, including oratorio, cantata, opera, and extended choral works. (Repeatable: May be taken four times only.)

MUSIC 35R—Beginning Guitar (1 or 2 units)**CSU/UC**

Basic guitar technique with an emphasis on melody and chording. (Repeatable: May be taken four times only.)

MUSIC 36R—Intermediate Guitar (1 unit)**CSU/UC**

A continuation of basic guitar technique with an emphasis on melody and chording. The student must provide their own acoustic (non-electric) guitar. Grades are P/NP. (Repeatable: May be taken four times only.)

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MUSIC 40A—Elementary Voice (1 unit) CSU/UC
Group instruction in vocal techniques; tone production, breathing, diction, and their application to the art song repertoire; English and Italian diction emphasized. One hour per week in the music lab required. Required of vocal music majors. (L)

MUSIC 40B—Elementary Voice (1 unit) CSU/UC
Group instruction in vocal techniques, tone production, breathing, diction, and their application to the art song repertoire; English, Italian, and German diction are emphasized. One hour per week in the music lab required. Required of vocal music majors. (L)

MUSIC 40C—Intermediate Voice (1 unit) CSU/UC
Group instruction in vocal techniques, tone production, breathing, diction, and their application to the art song repertoire; English, Italian, and German diction are emphasized. One hour per week in the music lab. Required of vocal music majors. (L)

MUSIC 40D—Intermediate Voice (1 unit) CSU/UC
Group instruction in vocal techniques, tone production, breathing, diction, and their application to the art song repertoire; English, Italian, and German diction are emphasized. One hour per week in the music lab required. Required of all vocal music majors. (L)

MUSIC 41AR—Elementary Piano (1 unit) CSU/UC
Elementary piano, covering the fundamentals of keyboard theory and technique, reading, solo and ensemble repertoire, and creative activities. (Repeatable: May be taken two times only.) (L)

MUSIC 41BR—Elementary Piano (1 unit) CSU/UC
Elementary piano covering the fundamentals of keyboard theory and technique, reading, solo and ensemble repertoire, and creative activities. Prerequisite: MUSIC 41AR (Repeatable: May be taken two times only.) (L)

MUSIC 42R—Intermediate Piano (1 unit) CSU/UC
Group piano class for students with at least one year of concentrated piano study; emphasis on technique, repertoire, and sight reading skills. (Repeatable: May be taken four times only.) (L)

MUSIC 43R—Symphonic Band (2 units) CSU/UC
Study and performance of band literature in all periods of music. Emphasis on the development of ensemble playing techniques. (Repeatable: May be taken four times only.)

MUSIC 44R—Instrumental Chamber Ensemble (2 units) CSU/UC
Study and performance of chamber music using brass, percussion, string, or woodwind instruments in small group ensembles. (Repeatable: May be taken four times only.)

MUSIC 54R—Community Chorus (1 unit)
Study, rehearsal, and performance of the standard choral literature including oratorio, cantata, opera, and extended choral works. Open to all students and members of the community. (Repeatable: May be taken four times only.)

NATIVE AMERICAN STUDIES (see Ethnic Studies)

Non-Credit Classes

AJ-500R—Special Topics in Administration of Justice
Specialized instruction designed to meet the needs of law enforcement, corrections, and emergency service agencies; includes a variety of topics that satisfy the continuing education requirements set forth by the State of California for Peace Officers Standards of Training and Standards of Training for Corrections or agency needs.

ART-504—Drawing and Composition
Drawing and composition using various materials. Basic instruction in perspective, landscape, still life, and other subjects.

ART-509—Painting
Basic instruction in painting and introduction to materials. Emphasis on technique and on painting from life.

ART-512—Ceramics
Basic techniques and processes; artistic and creative expression through the use of clay. (L)

ART-527—Materials and Processes
An additional laboratory experience for those interested in further refining and development concepts attained in regular course offerings in the photography emphasis area in art. Concurrent enrollment or completion of ART 31R or 531.

ART-531—Basic Photography
An exploration into basic camera operation and black and white processing and printing. History and development of photography. Emphasis is on personal expression. Adjustable camera preferred. (L)

ART-532—Intermediate Black and White Photography
Advanced darkroom processes, zone system, archival processing, print and negative chemical manipulation, large format camera; discussion and critical analysis of assigned exercises and individual creative problem-solving; field sessions included. (LM)

ART-533—Advanced Photography
Black & white & color photography; further exploration within the student's area of interest. Assignments in creative problem solving with studio lighting & the large format camera. Preparation of final portfolio. Prerequisite: PHOTO 2B or PHOTO 4A or ART 32B or ART 34A or ART 532 or ART 534.

ART-535—Creative Photo Documentary
Develop an understanding and appreciation of the photograph as it is used in social and personal commentary. Individual exploration and creativity is encouraged. Prerequisite: ART 31R or MCOMM 11R

ART-536—Digital Photography
Introduction to digital photography; exposure control, file formats, archiving; and basic image editing/manipulation. Knowledge of basic computer operation is highly recommended.