

and the Indian Gaming Regulatory Act and contemporary Tribal Governments. The modern history of the Kumeyaay Nation including participation in the Mission Indian Federation, impact of Public Law 280, and the growth leading to the creation of current Indian Gaming in San Diego County will be examined. Overview of contemporary tribal sovereignty and Kumeyaay independence, laws pertaining to Native Americans in the United States, and the termination policies of the United States.

AA/AS GE, CSU, CSU GE, IGETC, UC

148 EMERGENCE OF THE MODERN MIDDLE EAST 3 UNITS

3 hours lecture

A historical survey exploring the events leading to the creation and emergence of the modern Middle East. Ranging from the 7th century to the present, the course includes the origin and spread of Islam, Islamic dynasties and civilizations, Crusades, Ottoman Empire, Persia/Iran, interactions with and colonization by Western powers, rise of 20th century independent nation-states, creation of Israel and the Arab-Israeli conflict, 20th century wars and conflicts, famous political/religious leaders, intellectual/scientific accomplishments, and artistic/literary works.

AA/AS GE, CSU, CSU GE, IGETC, UC

180* U.S. HISTORY: BLACK PERSPECTIVES I 3 UNITS

3 hours lecture

United States history with an emphasis on social, economic, political and cultural experiences of Black people. Traces the development of African-American history from African origins through the period of Reconstruction.

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

181* U.S. HISTORY: BLACK PERSPECTIVES II 3 UNITS

3 hours lecture

Examination of significant aspects of United States history from the aftermath of the Civil War to the present, including explorations of the U.S. and California constitutions and interactions between federal, state, and local governments. Emphasis is on the socio-economic, political and cultural experience of African Americans in the United States from Reconstruction to the present.

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

275 HISTORICAL PERIOD 3 UNITS

3 hours lecture

In-depth study of an historical period. Reading, discussion, lecture and instructional media focuses on the forces contributing to the creation of the material studied and on the place of that material in relation to other disciplines in the humanities.

CSU, CSU GE, IGETC, UC

276 GEOGRAPHICAL AREA 3 UNITS

3 hours lecture

In-depth study of a geographical area. Reading, discussion, lecture and instructional media focuses on the forces contributing to the creation of the material studied and on the place of that material in relation to other disciplines in the humanities.

CSU, CSU GE, IGETC, UC

277 HISTORICAL THEME 3 UNITS

3 hours lecture

In-depth study of an historical theme. Reading, discussion, lecture and instructional media focuses on the forces contributing to the creation of the material studied and on the place

of that material in relation to other disciplines in the humanities.

CSU, CSU GE, IGETC, UC

*Can be used to satisfy U.S. History, Constitution, and American Ideals graduation requirement for the CSU.

HUMANITIES (HUM)

110 PRINCIPLES OF THE HUMANITIES 3 UNITS

3 hours lecture

In this interdisciplinary humanities course, students will learn how to examine, compare, analyze, evaluate, interpret and discuss creative works within their cultural contexts. Examples for study will be selected from the world's great works of literature, drama, painting, sculpture, architecture, music, etc.

AA/AS GE, CSU, CSU GE, IGETC, UC

115 ARTS AND CULTURE IN LOCAL CONTEXT—SAN DIEGO 3 UNITS

3 hours lecture

This course offers an interdisciplinary survey of San Diego's history, art and culture. Focusing on San Diego's cosmopolitan cultural offerings, students will study characteristic elements of art media (such as architecture, sculpture, music, literature, theater), their creators, significant cultural sites, and our position in the broader context of world culture. Guest lectures by local artists and trips to various cultural sites (Balboa Park, Old Globe Theatre, San Diego Museum of Art, Copley Symphony Hall, Gaslamp District) will be integrated into the course to bring students into direct contact with the arts. Field trips and tours of local cultural sites are a required component of this class.

AA/AS GE, CSU, CSU GE, IGETC, UC

116 KUMEYAAY ARTS AND CULTURE 3 UNITS

3 hours lecture

This course is a survey of arts and culture of the Kumeyaay Nation in what is now commonly known as San Diego and Imperial Counties and Baja California. Students will study Kumeyaay art, music, dance, games, related literature, philosophy, religious beliefs and traditions. Kumeyaay humanities will be studied in the broader context of world cultures. Guest lectures by Kumeyaay elders and experts will be integrated into the course. Field trips to various cultural sites and events are a required component of this class.

AA/AS GE, CSU, CSU GE, IGETC, UC

120 EUROPEAN HUMANITIES 3 UNITS

3 hours lecture

An integrated approach to European cultural values as expressed in representative masterpieces of literature, philosophy, drama, music, visual art and architecture.

AA/AS GE, CSU, CSU GE, IGETC, UC

140 HUMANITIES OF THE AMERICAS 3 UNITS

3 hours lecture

Integrated exploration of broadly representative examples of literature, philosophy, drama, music, visual art and architecture of the Americas—the geographical scope of which will include the United States, Canada, the Caribbean, and Latin America.

AA/AS GE, CSU, CSU GE, IGETC, UC

155 WORLD MYTHOLOGY THROUGH THE HUMANITIES 3 UNITS

3 hours lecture

Exploration of world mythologies through broader consideration of their place within the humanities. Students will examine a variety of myths, legends, folklore, and fairy tales, as well as relevant themes, symbols, archetypes, etc.

AA/AS GE, CSU, CSU GE, IGETC, UC

INTERDISCIPLINARY STUDIES (IS)

198 SUPERVISED TUTORING 0 UNIT

TBA hours

This course uses a variety of educational tools to assist students with various learning needs. The course may be used to strengthen prerequisite skills prior to enrolling in a specific course, or to receive supplemental assistance while enrolled in another course. This course may be taken with different content. **No fee/no credit/noncredit course.**

MATHEMATICS (MATH)

010 JUST-IN-TIME-SUPPORT FOR INTERMEDIATE ALGEBRA 3 UNITS

Prerequisite: Appropriate placement

Corequisite: Concurrent enrollment in MATH 110 at Cuyamaca College

2.5 hours lecture, 1.5 hours laboratory

A review of the core prerequisite skills, competencies, and concepts for intermediate algebra. Intended for students who are concurrently enrolled in MATH 110, Intermediate Algebra, at Cuyamaca College. Review topics include: computational skills developed in pre-algebra, the vocabulary of algebra, translation from English to algebra, and evaluation of literal expressions and functions. Topics covered in more depth include: solving and graphing linear equations and inequalities in one and two variables, solving and graphing systems of equations in two variables, factoring, algebraic operations on polynomial and rational expressions, solving quadratics using factoring, and rational equations. Recommended for students with little or no recent knowledge of algebra. A graphing calculator is required for this course. **Pass/No Pass only. Non-degree applicable.**

020 FOUNDATIONS FOR QUANTITATIVE REASONING 1 UNIT

Corequisite: MATH 120

1 hour lecture

This support course focuses on the skills and concepts needed for success in Quantitative Reasoning (QR). This course is for students concurrently enrolled in Math 120. Students will receive extra support in arithmetic, algebra, geometry, problem solving, technology, and study skills. **Pass/No Pass only. Non-degree applicable.**

060 FOUNDATIONS FOR ELEMENTARY STATISTICS 2 UNITS

Prerequisite: Appropriate placement

Co-requisite: MATH 160 or PSY 215

2 hours lecture

This support course focuses on the skills and concepts needed for success in transfer-level statistics. This course is for students concurrently enrolled in statistics at Cuyamaca College. Students will receive extra support in arithmetic, algebra, problem solving,

technology, and study skills. **Pass/No Pass only. Non-degree applicable.**

076 FOUNDATIONS FOR PRECALCULUS 2 UNITS

Prerequisite: Appropriate placement

Co-requisite: MATH 176

2 hours lecture

Support for this course focuses on the skills and concepts needed for success in PreCalculus. This course is for students concurrently enrolled in PreCalculus (Math 176) at Cuyamaca College. Students will receive extra support in algebra, geometry, problem solving, technology, and study skills. **Pass/No Pass only. Non-degree applicable.**

078 FOUNDATIONS FOR CALCULUS FOR BUSINESS SOCIAL & BEHAVIORAL SCIENCES 2 UNITS

Prerequisite: Appropriate placement

Co-requisite: MATH 178

2 hours lecture

Support for this course focuses on the skills and concepts needed for success in Calculus for Business, Social & Behavioral Sciences (Math 178). This course is for students concurrently enrolled in Math 178 at Cuyamaca College. Students will receive extra support in algebra, geometry, problem solving, technology, and study skills. **Pass/No Pass only. Non-degree applicable.**

096 FOUNDATIONS FOR STATISTICS AND QUANTITATIVE REASONING 6 UNITS

6 hours lecture

An accelerated one-semester course to transfer-level Elementary Statistics (Math 160) or Quantitative Reasoning (Math 120). Math 096 covers core concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and descriptive statistics that are needed to understand the basics of college-level statistics. Concepts are taught through the context of descriptive data analysis. The core arithmetic and algebra skills needed to understand the concepts, formulas, and graphs used in transfer-level statistics are investigated as needed. Additional emphasis is placed on solving and graphing linear equations; modeling with linear functions; solving contextualized problems; and dimensional analysis. This course is NOT intended for math, science, computer science, business, or engineering majors. **Pass/No Pass only. Non-degree applicable.**

110 INTERMEDIATE ALGEBRA FOR BUSINESS, MATH, SCIENCE AND ENGINEERING MAJORS 5 UNITS

Prerequisite: Appropriate placement

5 hours lecture

The second of a two-course sequence in algebra. This course completes some topics from the first course, such as factoring and operations on rational and radical expressions, and includes the addition of new topics such as absolute value equations, exponential and logarithmic expressions and equations, conic sections, and an introduction to matrices and sequences and series. The concept of functions is developed including composition and inverses. Quadratic functions are covered in depth. Computational techniques developed in beginning algebra are prerequisite skills for this course. This course is appropriate for students with knowledge of beginning algebra or who have had at least two years of high school algebra but have not used it for several years. Graphing calculators are required for this course.

AA/AS GE

120 QUANTITATIVE REASONING 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in MATH 096 or 110 or equivalent

3 hours lecture

The students will survey the historical development of mathematics and apply topics such as logic, geometry, probability, statistics, problem solving, sequences and patterns, numeration systems, and personal finance to develop quantitative reasoning skills. Designed for students who do not intend to prepare for a career in science or business.

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

125 STRUCTURE AND CONCEPTS OF ELEMENTARY MATHEMATICS I 3 UNITS

C-ID MATH 120

Prerequisite: "C" grade or higher or "Pass" in 110 or equivalent

3 hours lecture, 1 hour laboratory

In blending the mathematical topics of sets, whole numbers, numeration, number theory, integers, rational and irrational numbers, measurement, relations, functions and logic, the course will investigate the interrelationships of these topics using a problem-solving approach and appropriate use of technology.

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

126 STRUCTURE AND CONCEPTS OF ELEMENTARY MATHEMATICS II 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in MATH 125 or equivalent

3 hours lecture, 1 hour laboratory

In blending the mathematical topics of statistics, probability, measurement, coordinate geometry, plane geometry, solid geometry, logic, relations and functions, the course will investigate the interrelationships of these topics using a problem-solving approach and appropriate use of technology.

CSU, CSU GE, IGETC, UC credit limit

160 ELEMENTARY STATISTICS 4 UNITS

C-ID MATH 110

Prerequisite: "C" grade or higher or "Pass" in MATH 096 or 110 or equivalent

4 hours lecture

The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education.

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

170 ANALYTIC TRIGONOMETRY 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in MATH 110 or equivalent

3 hours lecture

Theoretical approach to the study of the trigonometric functions with emphasis on circular functions, trigonometric identities, trigonometric equations, graphical methods, vectors and applications, complex numbers, and solving triangles with applications. *Successful completion of MATH 170 and 175 is equivalent to the successful completion of MATH 176. Maximum of 7 units can be earned for successfully completing any combination of MATH 170, 175, 176.*

AA/AS GE, CSU, CSU GE

175 COLLEGE ALGEBRA 4 UNITS

C-ID MATH 151

Prerequisite: "C" grade or higher or "Pass" in MATH 110 or equivalent

4 hours lecture

College level course in algebra for majors in science, technology, engineering, and mathematics: polynomial, rational, radical, exponential, absolute value, and logarithmic functions; systems of equations; theory of polynomial equations; and analytic geometry. *Successful completion of MATH 170 and 175 is equivalent to the successful completion of MATH 176. Maximum of 7 units can be earned for successfully completing any combination of MATH 170, 175, 176.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

176 PRECALCULUS: FUNCTIONS AND GRAPHS 6 UNITS

Prerequisite: "C" grade or higher or "Pass" in MATH 110 or equivalent

6 hours lecture

Preparation for calculus: polynomial, absolute value, radical, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic geometry, polar coordinates. *Successful completion of MATH 170 and 175. Maximum of 7 units can be earned for successfully completing any combination of MATH 170, 175, 176.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

178 CALCULUS FOR BUSINESS, SOCIAL AND BEHAVIORAL SCIENCES 4 UNITS

C-ID MATH 140

Prerequisite: "C" grade or higher or "Pass" in MATH 110 or equivalent

4 hours lecture

Presents a study of the techniques of calculus with emphasis placed on the application of these concepts to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential and logarithmic functions are studied. *Not open to students with credit in MATH 180.*

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

180 ANALYTIC GEOMETRY AND CALCULUS I 5 UNITS

C-ID MATH 210, 900S (with MATH 280)

Prerequisite: "C" grade or higher or "Pass" in MATH 170 and 175, or MATH 176 or equivalent

5 hours lecture

Graphic, numeric and analytic approaches to the study of analytic geometry, limits and continuity of functions, and introductory differential and integral calculus. Applications involving analysis of algebraic, exponential, logarithmic, trigonometric and hyperbolic functions from a variety of disciplines including science, business and engineering. First of three courses designed to provide math, science, and engineering students with a solid introduction to the theory and techniques of analysis.

AA/AS GE, CSU, CSU GE, IGETC, UC credit limit

245 DISCRETE MATHEMATICS 3 UNITS

C-ID MATH 160

Prerequisite: "C" grade or higher or "Pass" in MATH 280 or equivalent

3 hours lecture

Introduction to discrete mathematics. Includes basic logic, methods of proof, sequences, elementary number theory, basic set theory, elementary counting techniques, relations, and recurrence relations.

AA/AS GE, CSU, CSU GE, IGETC, UC

280 ANALYTIC GEOMETRY AND CALCULUS II 4 UNITS

C-ID MATH 220, 900S (with MATH 180)
Prerequisite: "C" grade or higher or "Pass" in MATH 180 or equivalent
4 hours lecture

A second course in differential and integral calculus of a single variable: integration; techniques of integration; infinite sequences and series; polar and parametric equations; applications of integration. Primarily for science, technology, engineering and math majors.
AA/AS GE, CSU, CSU GE, IGETC, UC

281 MULTIVARIABLE CALCULUS 4 UNITS

C-ID MATH 230
Prerequisite: "C" grade or higher or "Pass" in MATH 280 or equivalent
4 hours lecture

The third of a three-course sequence in calculus. Topics include vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, and divergence theorem.
AA/AS GE, CSU, CSU GE, IGETC, UC

284 LINEAR ALGEBRA 3 UNITS

C-ID MATH 250, 910S (with MATH 285)
Prerequisite: "C" grade or higher or "Pass" in MATH 280 or equivalent
3 hours lecture

This course develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, and linear transformations. Selected applications of linear algebra are included.
AA/AS GE, CSU, CSU GE, IGETC, UC

285 DIFFERENTIAL EQUATIONS 3 UNITS

C-ID MATH 240, 910S (with MATH 284)
Prerequisite: "C" grade or higher or "Pass" in MATH 280 or equivalent
3 hours lecture

This course is an introduction to ordinary differential equations including both quantitative and qualitative methods as well as applications from a variety of disciplines. Introduces the theoretical aspects of differential equations, including establishing when solution(s) exist, and techniques for obtaining solutions, including series solutions, singular points, Laplace transforms and linear systems.
CSU, CSU GE, IGETC, UC

MUSIC (MUS)

Courses Related in Content (see pages 35-36)

001 MUSIC FUNDAMENTALS 4 UNITS

C-ID MUS 110
4 hours lecture
Basic elements of music. Notation, major and minor keys, intervals, triads and 7th chords with inversions. Musical terms and analysis of chord structures. Keyboard application.
CSU

090 PREPARATORY PERFORMANCE STUDIES I .5 UNIT

1.5 hours laboratory
Preparation for audition into MUS 190. Designed to enhance the musical progress of students who are currently receiving the equivalent of fifteen one-half hour lessons per semester of individual vocal or instrumental instruction.
Pass/No Pass only. Non-degree applicable.

091 PREPARATORY PERFORMANCE STUDIES II .5 UNIT

1.5 hours laboratory
Continued preparation for audition into MUS 190. Designed to enhance the musical progress of students who are currently receiving the equivalent of fifteen one-half hour lessons per semester of individual vocal or instrumental instruction.
Pass/No Pass only. Non-degree applicable.

104 INTRODUCTION TO THE MUSIC INDUSTRY 3 UNITS

3 hours lecture
Survey of the music industry with an emphasis on individual career options, roles and responsibilities. Includes interaction with industry components and relationships between business personnel and the music artist.
CSU

105 MUSIC THEORY AND PRACTICE I 4 UNITS

C-ID MUS 120, 125
3 hours lecture, 3 hours laboratory
Introduction to music theory and ear-training. Study of harmonic concepts of the 18th and 19th centuries. Rhythmic and melodic ear-training. Keyboard application and sight singing.
CSU, UC

106 MUSIC THEORY AND PRACTICE II 4 UNITS

Prerequisite: "C" grade or higher or "Pass" in MUS 105 or equivalent
3 hours lecture, 3 hours laboratory
Continuation of MUS 105. Four-part writing, 7th chords, cadences and non-chord tones. Rhythmic and melodic dictation and harmonic ear-training. Sight singing. Analysis of Bach chorales and binary and ternary forms.
CSU, UC

108 ROCK, POP AND SOUL ENSEMBLE 1 UNIT

Prerequisite: Audition
3 hours laboratory
Study and performance of representative popular music compositions from the second half of the 20th century with an emphasis on rock, rhythm and blues, and pop music. Open to instrumentalists and singers.
CSU, UC

109 ROCK, POP AND SOUL ENSEMBLE 1 UNIT

Prerequisite: Audition
3 hours laboratory
Study and performance of representative popular music compositions from the second half of the 20th century with an emphasis on rock, rhythm and blues, and pop music. Open to instrumentalists and singers.
CSU, UC

110 GREAT MUSIC LISTENING 3 UNITS

C-ID MUS 100
3 hours lecture
Listening and reading survey course to acquaint students with fundamental elements of musical style. Covers repertoire from a variety of cultures and periods with primary emphasis on the Western concert tradition.
AA/AS GE, CSU, CSU GE, IGETC, UC

111 HISTORY OF JAZZ 3 UNITS

3 hours lecture
Listening and reading survey course covering the history of jazz from its origins to the present. Includes style periods, significant artists, the broad cultural context of jazz, and the development of critical listening skills.
AA/AS GE, CSU, CSU GE, IGETC, UC

115 HISTORY OF ROCK MUSIC 3 UNITS

3 hours lecture
Overview of rock and rock-related musical styles from the early 1950s to the present. Coverage includes related social and cultural trends, outstanding artists, the influence of technology on popular music, and relevant trends in the music industry. Basic musical concepts such as pitch, rhythm and form will be introduced and applied to the music under consideration.
AA/AS GE, CSU, CSU GE, IGETC, UC

116 INTRODUCTION TO WORLD MUSIC 3 UNITS

3 hours lecture
Designed to expand the student's perspective about the nature of music around the world and demonstrate the relationship between music in different cultures. Highlights elements common to all music. May include music of the cultures of India, China, Japan, Indonesia, Africa, Pacific Islands, the Middle East, Europe, and the Americas.
AA/AS GE, CSU, CSU GE, IGETC, UC

117 INTRODUCTION TO MUSIC HISTORY AND LITERATURE 3 UNITS

Prerequisite: "C" grade or higher or "Pass" in MUS 001 or equivalent
3 hours lecture
Survey of art music in Western civilization from the ancient period to the present. Musical styles will be studied within the context of concurrent developments in society, politics and other arts.
AA/AS GE, CSU, CSU GE, IGETC, UC

118 INTRODUCTION TO MUSIC 4 UNITS

4 hours lecture
Study of basic music theory including notation, rhythms, and sight-singing. Introduction to basic rhythm instruments and development of keyboard facility and vocal skill. Designed for preschool/elementary education majors and non-music majors.
CSU, UC

119 COOPERATIVE WORK EXPERIENCE IN MUSIC EDUCATION 1-4 UNITS

75 hours paid or 60 hours unpaid work experience per unit
Practical application of principles and procedures learned in the classroom to the various phases of music education. Work experience will be paid or unpaid at local middle or high school music programs. Placement assistance will be provided. *Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 75 paid hours or 60 unpaid hours per unit earned. May be taken for a maximum of 12 units.*
CSU

120 INTRODUCTION TO MUSIC TECHNOLOGY 3 UNITS

Recommended Preparation: "C" grade or higher or "Pass" in MUS 001 or equivalent
2 hours lecture, 3 hours laboratory
Introduction to the basic concepts and processes for editing digital audio and using the digital synthesizer and personal computer to perform, notate and record music. Students should have basic computer skills, basic piano or keyboard skills, and be able to read music.
CSU

121 MUSIC INDUSTRY SEMINAR 1 UNIT

3 hours laboratory
In this project-based class, students will develop and create promotional materials for a local musical artist or groups, and will collaborate to produce concerts of popular